



Compatible with bi-facial modules



3 MPPTs



80V Startup Voltage



97.7% max. Efficiency



Up to 110% AC output overloading



Up to 200% DC input oversizing



| Technical Data                          | GW5000-MS                      | GW6000-MS   | GW7000-MS                | GW8500-MS    | GW10K- |
|---|--------------------------------|-------------|--------------------------|--------------|--------|
| Input                                   |                                |             |                          |              |        |
| Max.Input Voltage (V)                   |                                |             | 600                      |              |        |
| MPPT Operating Voltage Range (V)        |                                |             | 80 ~ 550                 |              |        |
| Start-up Voltage (V)                    |                                |             | 80                       |              |        |
| Nominal Input Voltage (V)               |                                |             | 360                      |              |        |
| Max. Input Current per MPPT (A)         |                                |             | 16                       |              |        |
| Max. Short Circuit Current per MPPT (A) |                                |             | 20                       |              |        |
| Number of MPP Trackers                  |                                |             | 3                        |              |        |
| Number of Strings per MPPT              |                                |             | 1                        |              |        |
| Output                                  |                                |             |                          |              |        |
| Nominal Output Power (W)                | 5000                           | 6000        | 7000                     | 8500         | 10000  |
| Nominal Output Apparent Power (VA)      | 5000                           | 6000        | 7000                     | 8500         | 10000  |
| Max. AC Active Power (W)*1              | 5500                           | 6600        | 7700                     | 9350         | 10000  |
| Max. AC Apparent Power (VA)*2           | 5500                           | 6600        | 7700                     | 9350         | 10000  |
| Nominal Output Voltage (V)              | 220 / 230 / 240                |             |                          |              |        |
| Nominal AC Grid Frequency (Hz)          |                                |             | 50 / 60                  |              |        |
| Max. Output Current (A)                 | 25.0                           | 30.0        | 35.0                     | 42.5         | 45.5   |
| Power Factor                            |                                | ~1 (Adjusta | able from 0.8 leading to | 0.8 lagging) |        |
| Max. Total Harmonic Distortion          |                                |             | <3%                      |              |        |
| Efficiency                              |                                |             |                          |              |        |
| Max. Efficiency                         | 97.7%                          |             |                          |              |        |
| European Efficiency                     | 97.3%                          |             |                          |              |        |
| Protection                              |                                |             |                          |              |        |
| PV Insulation Resistance Detection      |                                |             | Integrated               |              |        |
| Residual Current Monitoring             | Integrated                     |             |                          |              |        |
| PV Reverse Polarity Protection          | Integrated                     |             |                          |              |        |
| Anti-islanding Protection               | Integrated                     |             |                          |              |        |
| AC Overcurrent Protection               | Integrated                     |             |                          |              |        |
| AC Short Circuit Protection             | Integrated                     |             |                          |              |        |
| AC Overvoltage Protection               | Integrated                     |             |                          |              |        |
| DC Switch                               | Integrated                     |             |                          |              |        |
| DC Surge Protection                     | Type II                        |             |                          |              |        |
| AC Surge Protection                     | Type III (Type II Optional)    |             |                          |              |        |
| AFCI                                    | Optional                       |             |                          |              |        |
| Remote Shutdown                         | Optional                       |             |                          |              |        |
| General Data                            |                                |             |                          |              |        |
| Operating Temperature Range (°C)        | -25 ~ +60                      |             |                          |              |        |
| Relative Humidity                       | 0 ~ 100%                       |             |                          |              |        |
| Max. Operating Altitude (m)             | 4000                           |             |                          |              |        |
| Cooling Method                          | Natural Convection             |             |                          |              |        |
| User Interface                          | LED, LCD                       |             |                          |              |        |
| Communication                           | WiFi, RS485 or LAN (Optional)  |             |                          |              |        |
| Communication Protocols                 | Modbus-RTU (SunSpec Compliant) |             |                          |              |        |
| Weight (kg)                             | 22.5                           |             |                          |              |        |
| Dimension (W × H × D mm)                | 415 × 511 × 175                |             |                          |              |        |
| Topology                                | Non-isolated                   |             |                          |              |        |
| Self-consumption at Night (W)           | <1                             |             |                          |              |        |
| Ingress Protection Rating               | IP65                           |             |                          |              |        |
| DC Connector                            | MC4 (4 ~ 6mm²)                 |             |                          |              |        |
|   |                                |             |                          |              |        |

<sup>\*1:</sup> For Belgium Max. AC Active Power (W): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000.

\*2: For Belgium Max.Output Apparent Power (VA): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000.

\*2: Please visit GoodWe website for the latest certificates.