



Smart Control & Monitoring

- · Power export limit
- · Load consumption monitoring



High Power Generation

- · Up to 16 A max. DC input current per string
- Up to 200% DC input oversizing & 110% AC output overloading



Superb Safety & Reliability

- · Fanless cooling for quiet operation
- · Elegant and compact design



Friendly & Thoughtful Design

- · IP65 ingress protection
- · Quality and robust components



| Technical Data | GW5000-MS | GW6000-MS | GW7000-MS | GW8500-MS | GW10K-M |
|---|--------------------------------|------------------------------|------------------------------|------------------------------|----------------|
| Input | | | | | |
| Max.Input Voltage (V) | 600 | 600 | 600 | 600 | 600 |
| MPPT Operating Voltage Range (V) | 80 ~ 550 | 80 ~ 550 | 80 ~ 550 | 80 ~ 550 | 80 ~ 550 |
| Start-up Voltage (V) | 80 | 80 | 80 | 80 | 80 |
| Nominal Input Voltage (V) | 360 | 360 | 360 | 360 | 360 |
| Max. Input Current per MPPT (A) | 16 | 16 | 16 | 16 | 16 |
| Max. Short Circuit Current per MPPT (A) | 20 | 20 | 20 | 20 | 20 |
| Number of MPP Trackers | 3 | 3 | 3 | 3 | 3 |
| Number of Strings per MPPT | 1 | 1 | 1 | 1 | 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 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 24 |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 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% | <3% | <3% | <3% | <3% |
| Efficiency | | | | | |
| Max. Efficiency | 97.7% | 97.7% | 97.7% | 97.7% | 97.7% |
| European Efficiency | 97.3% | 97.3% | 97.3% | 97.3% | 97.3% |
| Protection | | | | | |
| PV Insulation Resistance Detection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Residual Current Monitoring | Integrated | Integrated | Integrated | Integrated | Integrated |
| PV Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Anti-islanding Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Overcurrent Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Short Circuit Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Overvoltage Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Switch | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Surge Protection | Type II | Type II | Type II | Type II | Type II |
| AC Surge Protection | Type III (Type II Optional) | | | | |
| AFCI | Optional | Optional | Optional | Optional | Optional |
| Remote Shutdown | Optional | Optional | Optional | Optional | Optional |
| General Data | | | | | |
| Operating Temperature Range (°C) | -25 ~ +60 | -25 ~ +60 | -25 ~ +60 | -25 ~ +60 | -25 ~ +60 |
| Relative Humidity | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% |
| Max. Operating Altitude (m)*3 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Cooling Method | Natural Convection | Natural Convection | Natural Convection | Natural Convection | Natural Convec |
| User Interface | LED, LCD | LED, LCD | LED, LCD | LED, LCD | LED, LCD |
| Communication | WiFi, RS485 or LAN (Optional) | | | | |
| Communication Protocols | Modbus-RTU (SunSpec Compliant) | | | | |
| Weight (kg) | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| Dimension (W \times H \times D mm) | 511 × 415 × 175 | 511 × 415 × 175 | 511 × 415 × 175 | 511 × 415 × 175 | 511 × 415 × 1 |
| Topology | Non-isolated | Non-isolated | Non-isolated | Non-isolated | Non-isolated |
| Self-consumption at Night (W) | <1 | <1 | <1 | <1 | <1 |
| Ingress Protection Rating | IP65 | IP65 | IP65 | IP65 | IP65 |
| DC Connector | MC4 (4 ~ 6 mm ²) | MC4 (4 ~ 6 mm ²) | MC4 (4 ~ 6 mm ²) | MC4 (4 ~ 6 mm ²) | MC4 (4 ~ 6 mn |
| | AC Connector | AC Connector | AC Connector | AC Connector | AC Connecto |

^{*11:} 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.

*3: For Australia Max. Operating Altitude (m) is 3000.

*: Please visit GoodWe website for the latest certificates.