## GOODWE

## MS Series

## 5-10kW I Single Phase I 3 MPPTs

The MS Series is GoodWe's answer to the residential segment's expanding needs. This $5-10 \mathrm{~kW}$, Single Phase, 3 MPPTs inverter is a powerful and versatile solution. It is truly a champion in terms of DC oversizing, offering as much as 200\%, way above the competition, making it possible as well to achieve 110\% AC overloading. With a start-up voltage of only 80 V the MS is able to generate electricity earlier than equivalent products, achieving a high efficiency of $97.7 \%$. This inverter is compatible with bifacial modules andoutstandingly and its maximúm current input reaches 16A per string. The MS comes with an AFCI integrated protection and the light weight allows for effortless installation.


(1)
Compatible with bi-facial modules

3 MPPTs
97.7\% max. Efficiency

$110 \%$Up to 110\% AC output overloading

80V Startup Voltage

| Technical Data | CW5000-MS | GW6000-MS | GW7000-MS | CW8500-MS | GW10K-MS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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 (Adju | from 0.8 leading | 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 |  |  | e III (Type II Option |  |  |
| AFCl |  |  | Optional |  |  |
| Remote Shutdown |  |  | Optional |  |  |
| General Data |  |  |  |  |  |
| Operating Temperature Range ( ${ }^{\circ} \mathrm{C}$ ) |  |  | -25~+60 |  |  |
| Relative Humidity |  |  | 0 ~ 100\% |  |  |
| Max. Operating Altitude (m) |  |  | 4000 |  |  |
| Cooling Method |  |  | Natural Convection |  |  |
| User Interface |  |  | LED, LCD |  |  |
| Communication |  |  | RS485 or LAN (Opti |  |  |
| Communication Protocols |  | Mod | -RTU (SunSpec Com | ant) |  |
| Weight (kg) |  |  | 22.5 |  |  |
| Dimension ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D} \mathrm{mm}$ ) |  |  | $415 \times 511 \times 175$ |  |  |
| Topology |  |  | Non-isolated |  |  |
| Self-consumption at Night (W) |  |  | <1 |  |  |
| Ingress Protection Rating |  |  | IP65 |  |  |
| DC Connector |  |  | MC4 (4 ~ 6mm²) |  |  |
| AC Connector |  |  | AC Connector |  |  |

*1: 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 .
*: Please visit GoodWe website for the latest certificates.

