GOODWE

MS G3 Series

5-10kW I Single Phase I 3 MPPTs

The MS G3 single-phase inverters of 5-10kW provide powerful and versatile solution options for residential buildings. This model boasts 3 MPPTs for various complex rooftops, thus leading to high power efficiency. The ultra-low 50V startup voltage allows inverters to kick in earlier during the day and presents more power generation. In addition, by supporting up to 20A DC max. input current per MPPT, the MS G3 Series is ideal for high-power modules, which makes full use of power generated and presents lower LCOE. Importantly, PID (potential induced degradation) recovery function is supported for better module performance. The inverter also takes safety measures including optional Arc Fault Failure Interrupter (AFCI) and Type II Surge Protection Device (SPD) on both sides to protect the system from electrical fire and lightning hazards in extreme environments, for guaranteed safety.

COMING SOON

Smart Control & Monitoring

· Smart load control with dry contacts
· 24-hour load consumption monitoring

High Power Generation

· Up to 20A max. DC input current per string
· PID recovery function

Superb Safety & Reliability

· Optional AFCI & rapid shutdown[1]
· IP66 ingress protection

Friendly & Thoughtful Design

· Fanless cooling for quiet operation
· Elegant and compact design

1: Optional functions or devices are purchased separately.

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Technical Data	GW5000-MS-30	GW6000-MS-30	GW7000-MS-30	GW8500-MS-30	GW10K-MS-30
Input					
Max. Input Voltage (V)			600		
MPPT Operating Voltage Range (V)			40 ~ 560		
Start-up Voltage (V)			50		
Nominal Input Voltage (V)			360		
Max. Input Current per MPPT (A)			20		
Max. Short Circuit Current per MPPT (A)			25		
Number of MPP Trackers	3	3	3	3	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)*3	24.0	28.7	33.5	40.7	43.5*7
Power Factor			~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion			<3%		
Efficiency					
Max. Efficiency*4	97.8%	97.8%	97.7%	97.9%	97.9%
European Efficiency*5	97.2%	97.2%	97.1%	97.3%	97.3%
Protection					
PV String Current Monitoring			Integrated		
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 III (Type II Optional)		
AC Surge Protection			Type III (Type II Optional)		
AFCI			Optional		
Rapid Shutdown			Optional		
Remote Shutdown			Optional		
General Data					
Operating Temperature Range (°C)			-25 ~ +60		
Relative Humidity			0 ~ 100%		
Max. Operating Altitude (m)*6			4000		
Cooling Method			Natural Convection		
User Interface			LED, LCD (Optional)		
Communication			WiFi, RS485 or LAN or 4G or DI (Ripple Control or DRM) (Optional)		
Communication Protocols			Modbus-RTU (SunSpec Compliant)		
Weight (kg)	19	19	19	19	19
Dimension (W × H × D mm)			441 × 507 × 210		
Noise Emission (dB)			<30		
Topology			Non-isolated		
Self-consumption at Night (W)			<1		
Ingress Protection Rating			IP66		
DC Connector			MC4 (2.5 ~ 4mm^2)		
AC Connector			AC connector		

*1: For Brazil Max. AC Active Power (W) GW7000-MS-30 is 7000, GW8500-MS-30 is 8500.
*2: For Brazil Max. AC Apparent Power (VA) GW7000-MS-30 is 7000, GW8500-MS-30 is 8500.
*3: For Brazil Max. Output Current (A) GW7000-MS-30 33.5, GW8500-MS-30 is 40.7, GW10K-MS-30 is 45.5.
*4: For Brazil Max. Efficiency GW7000-MS-30 is 97.5%, GW8500-MS-30 is 97.8%, GW10K-MS-30 is 97.8%.
*5: For Brazil European Efficiency GW7000-MS-30 is 97.0%, GW8500-MS-30 is 97.2%, GW10K-MS-30 is 97.2%.
*6: For Australia Max. Operating Altitude (m) is 3000.
*7: For where the Nominal Output Voltage (V) is 220, Max. Output Current (A) GW10K-MS-30 is 45.5, Nominal Output Current (A) GW10K-MS-30 is 45.5.
*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.
*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.