

GOODWE

MS Series

5-10kW | 3 MPPTs | Single Phase

The MS Series of 5-10kW single phase inverters with 3 MPPTs for complex rooftops, is a powerful and versatile solution for the expanding need of the residential market. It is truly a champion over the competition in terms of DC oversizing, offering as much as 200% and achieving up to 110% AC overloading. With a start-up voltage of only 80V, the MS series is able to generate electricity earlier than equivalent products, achieving a high efficiency of 97.7%. The MS is compatible with bi-facial modules and its maximum current input reaches 12.5A per string. The MS also comes with integrated Arc-Fault Circuit Interrupter (AFCI) protection and is lightweight for easy installation.



Compatible with bi-facial modules



97.7% max. Efficiency



3 MPPTs



Up to 110% AC output overloading



80V Startup Voltage



Up to 200% DC input oversizing

Technical Data	GW5000-MS	GW6000-MS	GW8500-MS	GW10K-MS
Input				
Max. Input Power (W) ³	10000	12000	13500	13500
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)		12.5		
Max. Short Circuit Current per MPPT (A) ²		15		
Number of MPP trackers		3		
Number of Strings per MPPT		1		
Output				
Nominal Output Power (W)	5000	6000	8500	10000
Nominal Output Apparent Power (VA)	5000	6000	8500	10000
Max. AC Active Power (W)	5500	6600	9350	10000
Max. AC Apparent Power (VA)	5500	6600	9350	10000
Nominal Output Voltage (V)		220 / 230		
Nominal AC Grid Frequency (Hz)		50 / 60		
Max. Output Current (A)	25.0	30.0	42.5	45.5
Power Factor		~1 (Adjustable 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)		
Emergency Power Off		Optional		
Remote Shutdown		Optional		
General Data				
Operating Temperature Range (°C)		-25 ~ +60		
Relative Humidity		0 ~ 100%		
Max. Operating Altitude (m) ¹¹		4000		
Cooling Method		Natural Convection		
User Interface		LED, LCD, WLAN + APP		
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)		
AC Connector		AC Connector		
Country of Manufacture		China		

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

*2: For Australia Max. Short Circuit Current per MPPT (A) please refer to 'Manufacturer declaration: short circuit current'.

*3: For Brazil Max. Input Power (W), GW5000-MS is 9000, GW6000-MS is 10800, GW8500-MS is 15300, GW10K-MS is 18000.

*: Please visit GoodWe website for the latest certificates.

** : Please refer to the user manual for the MPPT Voltage Range at Nominal Power.