

GOODWE

MS G4 Series

7.5-10kW | Single Phase | 2/3 MPPTs

As the fourth generation of the proven single-phase, 3MPPT residential inverter, the MS G4 series inverter comes with upgraded performance, reliability, functionality and safety, providing homeowners a more powerful and flexible solution for solar needs.



Wide Compatibility

- Compatible with mainstream modules
- 20A per string & 200% PV oversizing



Friendly & Thoughtful Design

- Quiet operation < 30dB
- Lightweight design for easy installation



Superb Safety & Reliability

- Built-in rapid shutdown transmitter
- AI-driven AFCI 3.0 for safety¹



Flexible & Adaptable Applications

- Flexible paralleling with GoodWe DNS G4 inverter
- Easy paralleling via GoodWe smart dongle Ezlink3000

1: Optional functions or devices are purchased separately.

Technical Data		GW7.5K-MS-G40	GW8.5K-MS-G40	GW10K-MS-G40	GW7.5K-MS-G41	GW8K-MS-G40
Input						
Max. Input Voltage (V) ^{†1}		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)		26				
Number of MPP Trackers		3	3	3	2	2
Number of Strings per MPPT		1				
Output						
Nominal Output Power (W)		7500	8500	10000	7500	8000
Nominal Output Apparent Power (VA)		7500	8500	10000	7500	8000
Max. AC Active Power (W)		7500	8500	10000	7500	8000
Max. AC Apparent Power (VA)		7500	8500	10000	7500	8000
Nominal Output Voltage (V)		220 / 230 / 240, L / N / PE			220 / 230, L / N / PE	
Output Voltage Range (V)		160 ~ 270 (according to local standard)				
Nominal AC Grid Frequency (Hz)		50 / 60				
AC Grid Frequency Range (Hz)		45 ~ 55 / 55 ~ 65				
Max. Output Current (A)		34.1	38.7	45.5	34.1	36.4
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion		<3%				
Efficiency						
Max. Efficiency		97.8%	97.9%	97.9%	97.8%	97.8%
European Efficiency		97.2%	97.3%	97.3%	97.0%	97.0%
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 II				
AC Surge Protection		Type II				
AFCI		Optional				
Emergency Power Off		Optional				
Rapid Shutdown		Optional				
Remote Shutdown		Optional				
Power Supply at Night		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 (Optional), WLAN + APP				
Communication		RS485, WIFI, LAN, Bluetooth, 4G				
Communication Protocols		Modbus-RTU (SunSpec Compliant)				
Weight (kg)		16				
Dimension (W × H × D mm)		493 × 365 × 187				
Noise Emission (dB)		<30				
Topology		Non-isolated				
Self-consumption at Night (W)		<1				
Ingress Protection Rating		IP66				
DC Connector		MC4 (4 ~ 6mm ²)				
AC Connector		Plug and play connector (Max. 16mm ²)				

*1: When the input voltage ranges from 560V to 600V, the inverter will enter the standby state. When the input voltage returns to the MPPT operating voltage range of 40V to 560V, the inverter will resume normal operating state.

*: Please visit GoodWe website for the latest certificates.