

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	GW9.999K-MS-G40	GW7.5K-MS-G41	GW8K-MS-G40
Input					
Max. Input Power (W) ¹	15000	17000	19998	13500	14400
Max. Input Voltage (V) ²			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	9999	7500	8000
Nominal Output Apparent Power (VA)	7500	8500	9999	7500	8000
Max. AC Active Power (W)	7500	8500	9999	7500	8000
Max. AC Apparent Power (VA)	7500	8500	9999	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
Rated Output Current (A)	34.1@220V	38.7@220V	45.5@220V	34.1@220V	36.4@220V
	32.6@230V	37.0@230V	43.5@230V	32.6@230V	34.8@230V
	31.3@240V	35.5@240V	41.7@240V		
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				
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 ~ 6mm²)				
AC Connector	Plug and play connector (Max. 16mm²)				
Country of Manufacture	China				

*1: The actual value depends on the specific input power of PV panel.

*2: 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.

*: The nominal voltage for AU is 230V and frequency is 50Hz.

*: Please visit GoodWe website for the latest certificates.