

The fourth generation of GoodWe's MS single-phase inverter is the optimal solution for residential PV rooftops with complex layouts. It features three MPPTs, allowing more flexible PV string design and higher energy harvest. With 200% PV oversizing, 20A input per string, and a low start-up voltage, the MS G4 maximizes generation even under weak sunlight conditions. The MS G4 supports mixed parallel installation with DNS G4 using the EzLink3000 smart dongle-offering scalable, modular, and cost-effective system expansion. Optional Al-driven AFCI 3.0, Rapid Shutdown 2.0 with built-in transmitter, and Type II SPD on both AC & DC sides ensure maximum protection and compliance with global safety standards. Compact, quiet (<30dB), and cyber-secure, the MS G4 is designed to meet both today's and tomorrow's residential energy demands.



200% PV oversizing & 20A max per string



Optional Al-driven AFCI 3.0 & standard SPD Type II (AC & DC)



Parallel-ready with DNS G4 via EzLink3000





Input Max. Input Voltage (V)*1 MPPT Operating Voltage Range (V) Start-up Voltage (V)			
MPPT Operating Voltage Range (V)			
MPPT Operating Voltage Range (V)		600	
	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	2	3	2
Number of NiPP Trackers Number of Strings per MPPT	3	<u>3</u> 1	3
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Output			
Nominal Output Power (W)	7500	8500	10000
Nominal Output Apparent Power (VA)	7500	8500	10000
Max. AC Active Power (W)	7500	8500	10000
Max. AC Apparent Power (VA)	7500	8500	10000
Nominal Output Voltage (V)		220 / 230 / 240, 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
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%
European Efficiency	97.2%	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 II		
AC Surge Protection	Type II		
AFCI	Optional		
Remote Shutdown	Integrated		
Power Supply at Night	Integrated		
General Data			
Operating Temperature Range (°C)		-25 ~ +60	
Relative Humidity	-25 ~ +60 0 ~ 100%		
Max. Operating Altitude (m)	4000		
Cooling Method	Natural Convection		
User Interface	LED, LCD (Optional), WLAN + APP		
Communication Protocols	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		
	IP66		
Ingress Protection Rating DC Connector		MC4 (4 ~ 6mm 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.