

Flexible design options for maximised energy yield

- ✓ Maximised energy output
- ✓ Smart and efficient operation
- ✓ Modern and compact design
- ✓ Highest safety standards

The MS G3 inverter is an ideal match for residential PV rooftops with a complex layout. With a total of three MPPTs, the inverter accommodates the required design flexibility while enabling high system efficiency. The low start-up voltage enables generation from early morning to late evening and the maximum current input of 20A per string ensures compatibility with high-power solar modules. Optional Arc Fault Failure Interrupter (AFCI) and optional Type II SPD protect the system from electrical fire and lightning hazards. The MS G3 inverter is compatible with SG-ready devices, such as heat-pumps, for a Smart Home System integration. Load monitoring and power export limiting can be provided with GoodWe Homekit 1000 and GM1000.



Up to 20A per string



Low start-up voltage



3 MPPTs to accommodate complex rooftops



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		
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)	5500	6600	7700	9350	10000	
Max. AC Apparent Power (VA)	5500	6600	7700	9350	10000	
Nominal Output Voltage (V)			220 / 230 / 240			
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)	24.0	28.7	33.5	40.7	43.5 ^{*1}	
Power Factor			~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion			<3%			
Efficiency						
Max. Efficiency	97.8%	97.8%	97.7%	97.9%	97.9%	
European Efficiency	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			
Remote shutdown			Integrated			
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)			
Communication			WiFi, RS485 or LAN or DI (Ripple Control or DRM) (Optional)			
Communication Protocols			Modbus-RTU (SunSpec Compliant)			
Weight (kg)			19			
Dimension (W x H x D mm)			441 x 507 x 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			Plug and play connector (Max. 16mm ²)			

*1: 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.