



Compatible with bi-facial modules



3 MPPTs



80V Startup Voltage



97.7% max. Efficiency



Up to 110% AC output overloading



Up to 200% DC input oversizing



Technical Data	GW5000-MS	GW6000-MS	GW8500-MS	GW10K-MS
Input				
Max. Input Power (W)	10000	12000	13500	13500
Max.Input Voltage (V)	600	600	600	600
MPPT Operating Voltage Range (V)	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80
Nominal Input Voltage (V)	360	360	360	360
Max. Input Current per MPPT (A)	12.5	12.5	12.5	12.5
Max. Short Circuit Current per MPPT (A)	15	15	15	15
Number of MPP trackers	3	3	3	3
Number of Strings per MPPT	1	1	1	1
Output				
Nominal Output Power (W)	5000	6000	8500	10000
Nominal Output Apparent Power (VA)	5000	6000	8500	10000
Max. AC Active Power (W)*1	5500	6600	9350	10000
Max. AC Apparent Power (VA)*2	5500	6600	9350	10000
Nominal Output Voltage (V)	220 / 230	220 / 230	220 / 230	220 / 230
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	25.0	30.0	42.5	45.5
Power Factor		~1 (Adjustable from 0.8	3 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	97.7%	97.7%	97.7%	97.7%
European Efficiency	97.3%	97.3%	97.3%	97.3%
Protection				
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	71		e II Optional)	71
Emergency Power Off	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-25~+60	-25~+60	-25~+60	-25~+60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Max. Operating Altitude (m)*3	4000	4000	4000	4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Display	LED, LCD	LED, LCD	LED, LCD	LED, LCD
Communication		WiFi, RS485 or	LAN (Optional)	
Communication Protocols		Modbus-RTU (Su	inSpec Compliant)	
Weight (kg)	22.5	22.5	22.5	22.5
Dimension W×H×D (mm)	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65
DC Connector	MC4 (4~6 mm ²)	MC4 (4~6 mm ²)	MC4 (4~6 mm²)	MC4 (4~6 mm²)
AC Connector	AC Connector	AC Connector	AC Connector	AC Connector
Country of Manufacture	China	China	China	China

^{*1:} For Belgium Max. AC Active Power (W): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000;
*2: For Belgium Max.Output Apparent Power (VA): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000;
*3: For Australia Max. Operating Altitude (m) is 3000;
*: Please visit GoodWe website for the latest certificates.