

MT Series

50-80kW | Three Phase | 4 MPPTs

The GoodWe MT series is ideally suited for medium to large scale commercial rooftops and ground-mounted solar PV systems, where maximum versatility and profitability are important. With its compact design and power boost function, the MT series provides a 150% continuous maximum AC output power overload, offering a faster return on investment. The start-up voltage is 200V, much lower than other comparable products on the market, which makes the inverter start up earlier, therefore generating more power over time.



Up to 150% DC input oversizing



String level monitoring



Up to 115% AC output overloading



Full-load running at 50°C



Up to 99% Max. Efficiency



Power Line Communication

Technical Data	GW50KN-MT	GW60KN-MT	GW80K-MT
Input			
Max. Input Power (W)	65000	80000	120000
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 1000	200 ~ 1000	200 ~ 1000
Start-up Voltage (V)	200	200	200
Nominal Input Voltage (V)	620	620	620
Max. Input Current per MPPT (A)	33 / 33 / 22 / 22	33	44
Max. Short Circuit Current per MPPT (A)	41.5 / 41.5 / 27.5 / 27.5	41.5	55
Number of MPP Trackers	4	4	4
Number of Strings per MPPT	3 / 3 / 2 / 2	3	4 (Standard), 3 (Optional, Support bifacial module)
Output			
Nominal Output Power (W)	50000	60000	80000
Nominal Output Apparent Power (VA)	50000	60000	80000
Max. AC Active Power (W)	55000; 57500@415V*1	66000; 69000@415V*1	88000*1
Max. AC Apparent Power (VA)	55000; 57500@415V*2	66000; 69000@415V*2	88000*2
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	80.0	96.0	133.0
Power Factor	~1 (adjustable from 0.8 lagging to 0.8 leading)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%
Protection			
PV String Current Monitoring	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Switch	Optional	Optional	Optional
DC Surge Protection	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II
AFCI	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional
General Data			
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0~100%
Max. Operating Altitude (m)	4000	4000	4000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface	LED, LCD (Optional), WiFi + APP	LED, LCD (Optional), WiFi + APP	LED, WiFi+APP
Communication	RS485, WiFi or PLC (Optional)	RS485, WiFi or PLC (Optional)	RS485, WiFi, PLC (Optional)
Weight (kg)	59.0	64.0	70.0
Dimension (W x H x D mm)	586 x 788 x 264	586 x 788 x 264	586 x 788 x 267
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65
Country of Manufacture	China	China	China

*1: For Belgium, Max. AC Active Power (W): GW50KN-MT is 50000, GW60KN-MT is 60000, GW80K-MT is 80000.
 *2: For Belgium, Max. AC Apparent Power (VA): GW50KN-MT is 50000, GW60KN-MT is 60000, GW80K-MT is 80000.
 *: Please visit GoodWe website for the latest certificates.

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