

GOODWE

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	
MPPT Operating Voltage Range (V)''		200 ~ 1000	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		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	
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	
Nominal AC Grid Frequency (Hz)		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%	
Efficiency			
Max. Efficiency	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%
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		Optional	
DC Surge Protection		Type II	
AC Surge Protection		Type II	
AFCI		Optional	
PID Recovery		Optional	
General Data			
Operating Temperature Range (°C)		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Max. Operating Altitude (m)		4000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, LCD (Optional), WiFi + APP	
Communication		RS485, WiFi or PLC (Optional)	
Weight (kg)	59.0	64.0	70.0
Dimension (W × H × D mm)	586 × 788 × 264	586 × 788 × 264	586 × 788 × 267
Topology		Non-isolated	
Self-consumption at Night (W)		<1	
Ingress Protection Rating		IP65	
Country of Manufacture		China	

*1: For Chile, Max. AC Active Power (W): GW50KN-MT is 50000, GW60KN-MT is 60000, GW80K-MT is 80000.

*2: For Chile, 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.

**.: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.