

# MT Series

50-80kW | 4 MPPT | Three Phase

The second generation of GoodWe MT series inverter is suited for medium and 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 Goodwe MT series of the new generation can provide a 15% continuous maximum AC output power overload, offering a faster return on investment. The start-up voltage is 200V, much lower than other products, which makes the inverter start up earlier, therefore generating more power over time.



Up to 50% DC input oversizing



String level monitoring



Up to 15% AC output overloading



Full-load running at 50°C



Up to 99% Max. Efficiency



Power line communication

Technical Data	GW50KN-MT	GW60KN-MT	GW50KBF-MT	GW80KHV-MT	GW75K-MT	GW80K-MT
<b>DC Input Data</b>						
Max. PV Power (W)	65000	80000	65000	120000	112500	120000
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100	1100
MPPT Range (V)	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200
Min. Feed-in Voltage (V)	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	620	620	800	600	620
Max. Input Current per MPPT (A)	33 / 33 / 22 / 22	33	30	44	44	44
Max. Short Circuit Current per MPPT (A)	41.5 / 41.5 / 27.5 / 27.5	41.5	37.5	55	55	55
No. of MPP Trackers	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3	2	3	4 (Standard) 3 (Optional, Support bifacial module)	
<b>AC Output Data</b>						
Nominal Output Power (W)	50000	60000	50000	80000	75000	80000
Max. AC Active Power (cosφ=1)	55000;57500 @415Vac*1	66000;69000 @415Vac*1	55000;57500 @415Vac*1	88000*1	75000	88000*1
Max. Output Apparent Power (VA)	55000;57500 @415Vac*2	66000;69000 @415Vac*2	55000;57500 @415Vac*2	88000*2	75000	88000*2
Nominal Output Voltage (V)	400, default 3L+N+PE, 3L+PE optional in settings			540, 3L / PE	380 / 415	400, default 3L+N+PE, 3L+PE optional in settings
Nominal Output Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	80	96	80	94.1	133	133
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>						
Max. Efficiency	98.7%	98.8%	98.8%	99.0%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.4%	98.3%	98.3%
<b>Protection</b>						
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional
DC Surge Arrester	Type II					
AC Surge Arrester	Type II					
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	-	-	-	-	Integrated	Integrated
<b>General Data</b>						
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or WiFi+APP	LCD or WiFi+APP	LCD or WiFi+APP	LED, WiFi+APP	LED, WiFi+APP	LED, WiFi+APP
Communication	RS485 or WiFi or PLC	RS485 or WiFi or PLC	RS485 or WiFi or PLC	RS485 or WiFi or PLC	RS485 & WiFi, PLC (Optional)	RS485 & WiFi, PLC (Optional)
Weight (Kg)	59	64	60	65	70	70
Dimension (Width × Height × Depth mm)	586 × 788 × 264	586 × 788 × 264	586 × 788 × 264	586 × 788 × 264	586 × 788 × 267	586 × 788 × 267
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					

\*1: For Belgium Max. Output Power (W): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW80KHV-MT is 80000; GW80K-MT is 80000.

\*2: For Belgium Max. Output Apparent Power (VA): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW80KHV-MT is 80000; GW80K-MT is 80000.

\*: Please visit GoodWe website for the latest certificates.