

# Boost Your Power & Profit

## MT Series

Four-MPPT, Three-Phase

- Up to 50% DC input oversizing
- Up to 15% AC output overloading
- Up to 99% Max. Efficiency
- String level monitoring
- Full-load running at 50°C
- Power line communication



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 G2 series 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.

Technical Data		GW50K-MT	GW60K-MT	GW50KN-MT	GW60KN-MT	GW50KBF-MT	GW60KBF-MT	GW80KBF-MT	GW70KHV-MT	GW80KHV-MT	GW80K-MT
DC Input Data											
Max. PV Power (W)	65000	80000	65000	80000	65000	80000	104000	91000	120000	120000	
Max. DC Input Voltage (V)	1000	1000	1100	1100	1100	1100	1100	1100	1100	1100	
MPPT Range (V)	200~850	200~850	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000	
Starting Voltage (V)	200	200	200	200	200	200	200	200	200	200	
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620	800	750	800	620
Max. Input Current (A)	30/30/20/20	30/30/30/30	33/33/22/22	33/33/33/33	30/30/30/30	44/44/44/44	39/39/39/39	33/33/33/33	44/44/44/44	44/44/44/44	
Max. Short Current (A)	38/38/25/25	38/38/38/38	41.5/41.5/27.5/27.5	41.5/41.5/41.5/41.5	37.5/37.5/37.5/37.5	55/55/55/55	54.8/54.8/54.8/54.8	41.5/41.5/41.5/41.5	55/55/55/55	55/55/55/55	
No. of MPP Trackers	4	4	4	4	4	4	4	4	4	4	
No. of Input Strings per Tracker	3/3/2/2	3/3/3/3	3/3/2/2	3/3/3/3	2/2/2/2	3/3/3/3	3/3/3/3	3/3/3/3	3/3/3/3	4/4/4/4	4/4/4/4(Standard) or 3/3/3/3(Optional Support bifacial module)
AC Output Data											
Nominal Output Power (W)	50000	60000	50000	60000	50000	60000	80000	70000	80000	80000	
Max. Output Power (W)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	88000	77000	88000	92000@400Vac; 96000@415Vac	
Max. Output Apparent Power (VA)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	88000	77000	88000	92000@400Vac; 96000@415Vac	
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE			400, 3L/N/PE or 3L/PE			540, 3L/PE	500, 3L/PE	540, 3L/PE	400, 3L/N/PE or 3L/PE	
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	96	80	96	80	96	94.1	89	94.1	133	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)										
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency											
Max. Efficiency	98.7%	98.8%	98.7%	98.8%	98.8%	98.8%	99.0%	99.0%	99.0%	98.8%	
European Efficiency	98.3%	98.5%	98.3%	98.5%	98.3%	98.3%	98.4%	98.4%	98.4%	98.3%	
Protection											
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
DC SPD Protectioin	Integrated (Type II)										
AC SPD Protectioin	Integrated (Type II)										
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	NA	NA	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
General Data											
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-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%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or WIFI+APP					LED, WIFI+APP	LED,WIFI+APP	LCD or WIFI+APP	LED, WIFI+APP	LED,WIFI+APP	LED,WIFI+APP
Communication	RS485 or WIFI		RS485 or WIFI or PLC				RS485 or PLC	RS485 or WIFI or PLC	RS485 or PLC	RS485 or PLC	RS485 or WIFI, PLC (Optional)
Weight (kg)	59	64	59	64	60	65	65	60	65	70	
Dimension (Width*Height*Depth mm)	586*788*264		586*788*264		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	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless										
Certifications & Standards											
Grid Regulation	IEC61727, IEC62116, IEC60068, IEC61683, EN50530, EN50438+, VDE0126-1-1/A1, VDE-AR-N 4105, RD1699, RD661, RD413, UNE, AS/NZS 4777.2, DRRG/DEWA, NRS 097,G99		IEC61727, IEC62116, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E	IEC61727, IEC62116, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438		IEC61727, IEC62116, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	VDE-AR-N 4105, IEC61727, IEC62116	
Safety Regulation	IEC62109-1&-2										
EMC Regulation	EN6100-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013										
	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4										