Boost Your Power & Profit

MT Series

Four-MPPT, Three-Phase

- 30% DC input oversizing ratio
- 15% AC output overloading ratio
- Smart monitoring for 13 strings
- Full-load running at 50ºC
- Integrated bussman fuse for panel protection

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 600V of other products, which makes the inverter start up earlier, therefore generating more power over time.

Technical Data	GW50K-MT	GW50KN-MT	GW60K-MT	GW60KN-MT	GW50KBF-MT	GW60KBF-MT	GW70KHV-MT	GW80KHV-MT	GW80KBF-MT
DC Input Data									
Max. PV Power (W)	65000	65000	80000	80000	65000	80000	91000	120000	104000
Max. DC Input Voltage (V)	1000	1100	1000	1100	1100	1100	1100	1100	1100
MPPT Range (V)	200~850	200~1000	200~850	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200	200	200	200	200
Nominal DC Input Voltage (V)	620	620	620	620	620	620	750	800	800
Max. Input Current (A)	30/30/20/20	33/33/22/22	30/30/30/30	33/33/33/33	30/30/30/30	44/44/44/44	33/33/33/33	44/44/44/44	39/39/39/39
Max. Short Current (A)	38/38/25/25	41.5/41.5/27.5/27.5	38/38/38/38	41.5/41.5/41.5/41.5	37.5/37.5/37.5/37.5	55/55/55/55	41.5/41.5/41.5/41.5	55/55/55/55	54.8/54.8/54.8/54.8
No. of MPP Trackers	4	4	4	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3/3/2/2	3/3/3/3	3/3/3/3	2/2/2/2	3/3/3/3	3/3/3/3	4/4/4/4	3/3/3/3
AC Output Data									
Nominal Output Power (W)	50000	50000	60000	60000	50000	60000	70000	80000	80000
Max. Output Power (W)	55000; 57500@415Vac		66000; 69000@415Vac		55000;57500@415Vac	66000;69000@415Vac	77000	88000	88000
Max. Output Apparent Power (VA)	55000; 57500@415Vac		66000; 69000@415Vac		55000;57500@415Vac	66000;69000@415Vac	77000	88000	88000
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		500, 3L/PE	540, 3L/PE	540, 3L/PE
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	80	96	96	80	96	89	94.1	94.1
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%
Efficiency									
Max. Efficiency	98.7%	98.7%	98.8%	98.8%	98.8%	98.8%	99.0%	99.0%	99.0%
European Efficiency	98.3%	98.3%	98.5%	98.5%	98.3%	98.3%	98.4%	98.4%	98.4%
Protection									
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	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
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
General Data									
Ambient Temperature Range (℃)	-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%
Operating Altitude (m)	≤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
Display	LCD or WiFi+APP								
Communication	RS485 or WiFi or PLC								
Weight (kg)	59	59	64	64	60	65	60	65	65
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*264	586*788*267	586*788*264
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<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, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E	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, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E, MEA,PEA	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438
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								