

# Boost Your Power & Profit

## MT Series

4-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	GW50KN-MT	GW60KN-MT	GW50KBF-MT	GW60KBF-MT	GW75KBF-MT	GW80KBF-MT	GW70KHV-MT	GW80KHV-MT	GW80K-MT
<b>DC Input Data</b>									
Max. PV Power (W)	65000	80000	65000	80000	97500	104000	91000	120000	120000
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100	1100	1100	1100	1100
MPPT Range (V)	200~1000	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
Min. Feed-in Voltage (V)	210	210	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	620	620	620	750	800	750	800	620
Max. Input Current (A)	33/33/22/22	33/33/33/33	30/30/30/30	44/44/44/44	44/44/44/44	39/39/39/39	33/33/33/33	44/44/44/44	44/44/44/44
Max. Short Current (A)	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	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
No. of Input Strings per Tracker	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) 3/3/3/3 (Optional, Support bifacial module)
<b>AC Output Data</b>									
Nominal Output Power (W)	50000	60000	50000	60000	75000	80000	70000	80000	80000
Max. Output Power (W)	55000;57500 @415Vac*1	66000;69000 @415Vac*1	55000;57500 @415Vac*1	66000;69000 @415Vac*1	82500*1	88000*1	77000*1	88000*1	88000*1
Max. Output Apparent Power (VA)	55000;57500 @415Vac*2	66000;69000 @415Vac*2	55000;57500 @415Vac*2	66000;69000 @415Vac*2	82500*2	88000*2	77000*2	88000*2	88000*2
Nominal Output Voltage (V)	400, default 3L+N+PE, 3L+PE optional in settings				500, 3L/PE	540, 3L/PE	500, 3L/PE	540, 3L/PE	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	50/60	50/60	50/60
Max. Output Current (A)	80	96	80	96	95.3	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%
<b>Efficiency</b>									
Max. Efficiency	98.7%	98.8%	98.8%	98.8%	99.0%	99.0%	99.0%	99.0%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.3%	98.4%	98.4%	98.4%	98.4%	98.3%
<b>Protection</b>									
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 Protection	Integrated (Type II)								
AC SPD Protection	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
Humidity Monitoring	NA	NA	NA	NA	NA	NA	NA	NA	Integrated
<b>General Data</b>									
Ambient Temperature Range (°C)	-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			LED, WiFi+APP			LCD or WiFi+APP	LED, WiFi+APP	LED, WiFi+APP
Communication	RS485 or WiFi or PLC								RS485&WiFi, PLC (Optional)
Weight (kg)	59	64	60	65	65	65	60	65	65
Dimension (Width*Height*Depth mm)	586*788*264			586*788*267			586*788*264	586*788*267	586*788*267
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								

\*1: For Belgium Max. Output Power (W): GW50N-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

\*2: For Belgium Max. Output Apparent Power (VA): GW50N-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

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

## Teknik Bilgiler

## GW50K-MT GW60K-MT GW50KN-MT GW60KN-MT GW50KBF-MT GW60KBF-MT

### DC Giriş Bilgileri

Maks. PV Gücü (W)	65000	80000	65000	80000	65000	80000
Max. DC Giriş Voltajı (V)	1000	1000	1100	1100	1100	1100
MPPT Voltaj Aralığı (V)	200~850	200~850	200~1000	200~1000	200~1000	200~1000
Çalışmaya Başlama Voltajı (V)	200	200	200	200	200	200
Nominal DC Giriş Voltajı (V)	620	620	620	620	620	620
Max. Giriş Akımı (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
Max. Kısa Devre Akımı (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
MPPT Sayısı	4	4	4	4	4	4
MPPT Başına Giriş Sayısı	3/3/2/2	3/3/3/3	3/3/2/2	3/3/3/3	2/2/2/2	3/3/3/3

### AC Çıkış Bilgileri

Nominal Çıkış Gücü (W)	50000	60000	50000	60000	50000	60000
Max. Çıkış Gücü (W)	55000:57500 @415Vac	66000:69000 @415Vac	55000:57500 @415Vac	66000:69000 @415Vac	55000:57500 @415Vac	66000:69000 @415Vac
Max. Görünen Güç (VA)	55000:57500 @415Vac	66000:69000 @415Vac	55000:57500 @415Vac	66000:69000 @415Vac	55000:57500 @415Vac	66000:69000 @415Vac
Nominal Çıkış Voltajı (V)	400, 3L/N/PE veya 3L/PE					
Nominal Çıkış Frekansı (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Çıkış Akımı (A)	80	96	80	96	80	96
Güç Faktörü	~1 (0.8 ileri yada 0.8 geri ayarlanabilir)					
Harmonik (@Nominal Çıkış)	<3%	<3%	<3%	<3%	<3%	<3%

### Verimlilik

Max. Verim	98.7%	98.8%	98.7%	98.8%	98.8%	98.8%
Euro Verim	98.3%	98.5%	98.3%	98.5%	98.3%	98.3%

### Koruma

String Bazında İzleme	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
Anti islanding	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
Ters Polarite Bağlantı Koruma	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
İzolasyon izleme	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
DC sigorta	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
Modül için Anti-PID İşlevi	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı
DC SPD Koruması	Dahili (Tip II)					
AC SPD Koruması	Dahili (Tip II)					
Kaçak Akım İzleme	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
AC Aşırı Akım Koruması	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
AC Kısa Koruma	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
AC Aşırı Gerilim Koruması	Dahili	Dahili	Dahili	Dahili	Dahili	Dahili
Nem İzleme	NA	NA	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı	İsteğe bağlı

### Genel Özellikler

Çalışma Sıcaklık Aralığı (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60
Nem	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Çalışma Rakımı (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Soğutma	Fan ile Soğutma	Fan ile Soğutma	Fan ile Soğutma	Fan ile Soğutma	Fan ile Soğutma	Fan ile Soğutma
Diğer Arayüzler	LCD veya WiFi+APP					
Haberleşme	RS485 veya WiFi	RS485 veya WiFi	RS485 veya WiFi veya PLC			LED, WiFi+APP
Ağırlık (kg)	59	64	59	64	60	65
Ölçüler (UxGxY mm)	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264
Koruma Derecesi	IP65	IP65	IP65	IP65	IP65	IP65
Gece Enerji Tüketimi (W)	<1	<1	<1	<1	<1	<1
Topoloji	Trafosuz					

### Sertifikalar & Standartlar

Şebeke Yönetmelikleri	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, IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E	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
Güvenlik Yönetmelikleri	EN6100-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013					
EMC Yönetmelikleri	EN6100-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013					