

MT Series Datasheet



Technical Data

GW50KN-MT GW60KN-MT GW50KBF-MT GW60KBF-MT GW75KBF-MT GW80KBF-MT

DC Input Data

Max. PV Power (W)	65000	80000	65000	80000	97500	104000
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	620	750	800
Max. Input Current per MPPT (A)	33/33/22/22	33	30	44	44	39
Max. Short Circuit Current per MPPT (A)	41.5/41.5/27.5/27.5	41.5	37.5	55	55	54.8
No. of MPP Trackers	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3	2	3	3	3

AC Output Data

Nominal Output Power (W)	50000	60000	50000	60000	75000	80000
Max. AC Active Power (cosφ=1)	55000;57500 @415Vac*1	66000;69000 @415Vac*1	55000;57500 @415Vac*1	66000;69000 @415Vac*1	82500*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
Nominal Output Voltage (V)	400, default 3L+N+PE, 3L+PE optional in settings				500, 3L/PE	540, 3L/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	96	80	96	95.3	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%

Efficiency

Max. Efficiency	98.7%	98.8%	98.8%	98.8%	99.0%	99.0%
European Efficiency	98.3%	98.5%	98.3%	98.3%	98.4%	98.4%

Protection

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	Integrated (Type II)					
AC Surge Arrester	Integrated (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	-	-	-	NA	NA	NA

General Data

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	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or WiFi+APP			LED, WiFi+APP		
Communication	RS485 or WiFi or PLC					
Weight (kg)	59	64	60	65	65	65
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*264	586*788*267	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; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000.

*2: For Belgium Max. Output Apparent Power (VA): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000.

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MT Series Datasheet



Technical Data	GW70KMV-MT	GW70KHV-MT	GW80KHV-MT	GW75K-MT	GW80K-MT
DC Input Data					
Max. PV Power (W)	95000	91000	120000	112500	120000
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
MPPT Range (V)	200~1000	200~1000	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200
Min. Feed-in Voltage (V)	-	210	210	210	210
Nominal DC Input Voltage (V)	720	750	800	600	620
Max. Input Current per MPPT (A)	39	33	44	44	44
Max. Short Circuit Current per MPPT (A)	55	41.5	55	55	55
No. of MPP Trackers	4	4	4	4	4
No. of Input Strings per Tracker	3	3	3	4 (Standard) 3 (Optional, Support bifacial module)	
AC Output Data					
Nominal Output Power (W)	70000	70000	80000	75000	80000
Max. AC Active Power (cosφ=1)	77000	77000* ¹	88000* ¹	75000	88000* ¹
Max. Output Apparent Power (VA)	77000	77000* ²	88000* ²	75000	88000* ²
Nominal Output Voltage (V)	480, 3L/PE	500, 3L/PE	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
Max. Output Current (A)	92.6	89	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%
Efficiency					
Max. Efficiency	99.0%	99.0%	99.0%	98.8%	98.8%
European Efficiency	98.4%	98.4%	98.4%	98.3%	98.3%
Protection					
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional
DC Surge Arrester	Integrated (Type II)				
AC Surge Arrester	Integrated (Type II)				
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	-	NA	NA	Integrated	Integrated
General Data					
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	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 & WiFi, PLC (Optional)	RS485 & WiFi, PLC (Optional)
Weight (kg)	65	60	65	70	70
Dimension (Width*Height*Depth mm)	586*788*267	586*788*264	586*788*264	586*788*267	586*788*267
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				

*¹: For Belgium Max. Output Power (W): GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

*²: For Belgium Max. Output Apparent Power (VA): GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

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