

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)	200~850	200~850	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 (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
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
No. of MPP Trackers	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

AC Output Data

Nominal Output Power (W)	50000	60000	50000	60000	75000	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
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 SPD Protection	Integrated (Type II)					
AC SPD Protection	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 Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

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					

Certifications & Standards*

Grid Regulation	IEC61727,IEC6211 6,VDE4105,VDE01 26,RD1699,RD413, RD661,EN50438, AS/NZS 4777.2,NRS 097,CEI 0-21,ERDFNOI- RES_13E	IEC61727,IEC62 116,VDE4105,V DE0126,RD1699, RD413,RD661, EN50438,AS/ NRS 4777.2,NRS 097,CEI 0-21,ERDF- NOIRES_13E, MEA,PEA	IEC61727,IEC62116, VDE4105,VDE0126, RD1699,RD413, RD661,EN50438	IEC62109-1&-2
Safety Regulation	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013			
EMC Regulation	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013			

*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.
 *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.
 *Not all certifications & standards listed, check the official website for details.

MT/LV MT Series Datasheet



Technical Data	GW70KHV-MT	GW80KHV-MT	GW80K-MT	GW30KLV-MT	GW35KLV-MT	GW50KLV-MT
DC Input Data						
Max. PV Power (W)	91000	120000	120000	54000	63000	90000
Max. DC Input Voltage (V)	1100	1100	1100	800	800	800
MPPT Range (V)	200~1000	200~1000	200~1000	200~650	200~650	200~650
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)	750	800	620	370	370	370
Max. Input Current (A)	33/33/33/33	44/44/44/44	44/44/44/44	30/30/20/20	30/30/30/30	44/44/44/44
Max. Short Current (A)	41.5/41.5/41.5/41.5	55/55/55/55	55/55/55/55	38/38/25/25	38/38/38/38	55/55/55/55
No. of MPP Trackers	4	4	4	4	4	4
No. of Input Strings per Tracker	3/3/3/3	3/3/3/3	4/4/4/4 (Standard) 3/3/3/3 (Optional, Support bifacial module)	3/3/2/2	3/3/3/3	4/4/4/4
AC Output Data						
Nominal Output Power (W)	70000	80000	80000	30000	36000	50000
Max. Output Power (W)	77000*1	88000*1	80000*1	28800@208VAC 30000@220VAC 33000@240VAC	34500@208VAC 36000@220VAC 39900@240VAC	47300@208VAC 50000@220VAC 55000@240VAC
Max. Output Apparent Power (VA)	77000*2	88000*2	80000*2	33000	39900	55000
Nominal Output Voltage (V)	540, 3L/PE	500, 3L/PE	400, default 3L+N+PE, 3L+PE optional in settings	150-300	150-300	150-300
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	89	94.1	133	80	96	133
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	99.0%	99.0%	98.8%	98.7%	98.8%	98.7%
European Efficiency	98.4%	98.4%	98.3%	98.3%	98.5%	98.3%
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 SPD Protection	Integrated (Type II)					
AC SPD Protection	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 Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	NA	NA	Integrated	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	LED, WIFI+APP	LCD or WIFI+APP	LED, WIFI+APP	LED, WIFI+APP
Communication	RS485 or WIFI or PLC		RS485 & WiFi, PLC(Optional)	RS485 or WIFI		RS485 & WiFi, PLC(Optional)
Weight (kg)	60	65	70	59	64	70
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*267	586*788*264	586*788*264	586*788*267
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					
Certifications & Standards						
Grid Regulation	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438		VDE-AR-N 4105, IEC61727, IEC62116	-	-	-
Safety Regulation	IEC62109-1&-2					
EMC Regulation	EN 61000-6-4:2007+A1:2011, EN 61000-6-2:2005, EN 61000-3-11:2000, EN 61000-3-12:2011+AC:2013		EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4	-	-	-

*1: For Belgium Max. Output Power (W): GW70KV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

*2: For Belgium Max. Output Apparent Power (VA): GW70KV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

*Not all certifications & standards listed, check the official website for details.