MT Series Datasheet

Technical Data	GW50K-MT	GW60K-MT	GW50KN-MT	GW60KN-MT	GW50KBF-MT	GW60KBF-MT
DC Input Data						
Max. PV Power (W)	65000	80000	65000	80000	65000	80000
Max. DC Input Voltage (V)	1000	1000	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
Nominal DC Input Voltage (V)	620	620	620	620	620	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
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
No. of MPP Trackers	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
AC Output Data						
Nominal Output Power (W)	50000	60000	50000	60000	50000	60000
Max. Output Power (W)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac
Max. Output Apparent Power (VA)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE					
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	96	80	96	80	96
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%	98.7%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.5%	98.3%	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 Protectioin	Integrated (Type II)					
AC SPD Protectioin	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	Optional	Optional	Optional	Optional
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	RS485 or WiFi	RS485 or WiFi or PLC			
Weight (kg)	59	64	59	64	60	65
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264
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, 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,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
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					

MT/LV MT Series Datasheet

Technical Data	GW80KBF-MT	GW70KHV-MT	GW80KHV-MT	GW80K-MT	GW30KLV-MT	GW35KLV-MT	GW50KLV-MT
DC Input Data							
Max. PV Power (W)	104000	91000	120000	120000	54000	63000	90000
Max. DC Input Voltage (V)	1100	1100	1100	1100	800	800	800
MPPT Range (V)	200~1000	200~1000	200~1000	200~1000	200~650	200~650	200~650
Starting Voltage (V)	200	200	200	200	200	200	200
Nominal DC Input Voltage (V)	800	750	800	620	370	370	370
Max. Input Current (A)	39/39/39/39	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)	54.8/54.8/54.8/54.8	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	4
No. of Input Strings per Tracker	3/3/3/3	3/3/3/3	4/4/4/4	4/4/4/4(Standard) or3/3/3/3(Optional, Support bifacial module)	3/3/2/2	3/3/3/3	4/4/4/4
AC Output Data							
Nominal Output Power (W)	80000	70000	80000	80000	30000	36000	50000
Max. Output Power (W)	88000	77000	88000	92000@400Vac; 96000@415Vac	28800@208VAC 30000@220VAC 33000@240VAC	34500@208VAC 36000@220VAC 39900@240VAC	47300@208VAC 50000@220VAC 55000@240VAC
Max. Output Apparent Power (VA)	88000	77000	88000	92000@400Vac; 96000@415Vac	33000	39900	55000
Nominal Output Voltage (V)	540, 3L/PE	500, 3L/PE	540, 3L/PE	400, 3L/N/PE or 3L/PE	150-300	150-300	150-300
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	94.1	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%	<3%
Efficiency							
Max. Efficiency	99.0%	99.0%	99.0%	98.8%	98.7%	98.8%	98.7%
European Efficiency	98.4%	98.4%	98.4%	98.3%	98.3%	98.5%	98.3%
Protection							
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	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
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	-	-	-
General Data							
Ambient Temperature Range (℃)	-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%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan 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	LCD or WiFi+APP		LED, WiFi+APP
Communication	RS485 or PLC	RS485 or WiFi or PLC	RS485 or PLC	RS485 or WiFi, PLC (Optional)	RS485 or WiFi		RS485 or WiFi, PLC(Optional)
Weight (kg)	65	60	65	70	59	64	70
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*267	586*788*267	586*788*264	586*788*264	586*788*267
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<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 6100-6-4:2007+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	-	-	-