

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 Output 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 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	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	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						