

MT Series Datasheet



Technical Data	GW50K-MT	GW60K-MT	GW50KN-MT	GW60KN-MT	GW80K-MT
DC Input Data					
Max. PV Power (W)	66500	80000	66500	80000	120000
Max. DC Input Voltage (V)	1000	1000	1100	1100	1100
MPPT Range (V)	200~850	200~850	200~1000	200~1000	200~1000
Starting Voltage (V)	200	200	200	200	200
Nominal DC Input Voltage (V)	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	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	55/55/55/55
No. of MPP Trackers	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	4/4/4/4(Standard) or 3/3/3/3(Optional, Support bifacial module)
AC Output Data					
Nominal Output Power (W)	50000	60000	50000	60000	80000
Max. Output Power (W)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	92000@400Vac; 96000@415Vac
Max. Output Apparent Power (VA)	55000;57500 @415Vac	66000;69000 @415Vac	55000;57500 @415Vac	66000;69000 @415Vac	92000@400Vac; 96000@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
Max. Output Current (A)	80	96	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%
Efficiency					
Max. Efficiency	98.7%	98.8%	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.5%	98.3%	98.5%	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 SPD Protection			Integrated (Type II)		
AC SPD Protection			Integrated (Type II)		
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Humidity Monitoring	NA	NA	Optional	Optional	Optional
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	LCD or WiFi+APP	LCD or WiFi+APP	LCD or WiFi+APP	LCD or WiFi+APP	LED, WiFi+APP
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi or PLC	RS485 or WiFi or PLC	RS485 or WiFi, PLC (Optional)
Weight (kg)	59	64	59	64	70
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<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	VDE-AR-N 4105, IEC61727, IEC62116
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			EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4