



**30% DC Input
Oversizing Ratio**



**15% AC Output
Overloading Ratio**



**Max Efficiency
99%**



**Arc-Fault
Circuit-Interrupter**



**Power Line
Communication**



Fuse Free



SDT Series

Dual-MPPT, Three-Phase

SMT Series

Three-MPPT, Three-Phase

MT Series

Four-MPPT, Three-Phase

MT Series Datasheet



Technical Data	GW50K-MT	GW50KN-MT	GW60K-MT	GW60KN-MT
DC Input Data				
Max. PV Power (W)	65000	65000	80000	80000
Max. DC Input Voltage (V)	1000	1100	1000	1100
MPPT Range (V)	200~850	200~1000	200~850	200~1000
Starting Voltage (V)	200	200	200	200
Nominal DC Input Voltage (V)	620	620	620	620
Max. Input Current (A)	30/30/20/20	33/33/22/22	30/30/30/30	33/33/33/33
Max. Short Current (A)	38/38/25/25	41.5/41.5/27.5/27.5	38/38/38/38	41.5/41.5/41.5/41.5
No. of MPP Trackers	4	4	4	4
No. of Input Strings per Tracker	3/3/2/2	3/3/2/2	3/3/3/3	3/3/3/3
AC Output Data				
Nominal Output Power (W)	50000	50000	60000	60000
Max. Output Power (W)	55000; 57500@415Vac		66000; 69000@415Vac	
Max. Output Apparent Power (VA)	55000; 57500@415Vac		66000; 69000@415Vac	
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE		400, 3L/N/PE or 3L/PE	
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	80	80	96	96
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.7%	98.7%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.5%	98.5%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated
DC fuse	Integrated	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional	Optional
DC SPD Protection	Integrated (Type II)			
AC SPD Protection	Integrated (Type II)			
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional
General Data				
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD or WiFi+APP			
Communication	RS485 or WiFi or PLC			
Weight (kg)	59	59	64	64
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*264	586*788*264
Protection Degree	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<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, 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, MEA,PEA
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			