



## High and reliable energy yield for commercial PV rooftops

- ✓ Maximised energy output
- ✓ Smart and efficient operation
- ✓ Flexible configurations
- ✓ Highest safety standards

Commercial rooftop installations with complex layouts can trust the SMT inverter to facilitate maximum output. With high efficiency levels and up to six MPPT ports, a consistently impressive performance of the PV system is enabled. The inverter is easily transported and installed due to it being compact and lightweight, and can be integrated with GoodWe's Smart Energy Controller SEC1000 for load monitoring and power export limit functionalities.



Increased yield (110% AC power)



Full power up to 45°C



AC and DC Surge Protection Type II



Technical Data	GW25K-MT*	GW30K-MT*	GW36K-MT*	GW50KS-MT*	GW60KS-MT*	GW50KS-MT-EU**	GW60KS-MT-EU**
<b>Input</b>							
Max. Input Voltage (V)	1100			1100			
MPPT Operating Voltage Range (V)	200 ~ 950			200 ~ 950			
Start-up Voltage (V)	180			180			
Nominal Input Voltage (V)	600			600			
Max. Input Current per MPPT (A)	30			30			
Max. Short Circuit Current per MPPT (A)	37.5			37.5			
Number of MPP Trackers	3	3	3	5	6	5	6
Number of Strings per MPPT	2			2			
<b>Output</b>							
Nominal Output Power (kW)	25.0	30.0	36.0	50.0	60.0	50.0	60.0
Nominal Output Apparent Power (kVA)	25.0	30.0	36.0	50.0	60.0	50.0	60.0
Max. AC Active Power (kW)	27.5	33.0	36.0	55.0	66.0	55.0	66.0
Max. AC Apparent Power (kVA)	27.5	33.0	36.0	55.0	66.0	55.0	66.0
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE			230 / 400, 3L / N / PE or 3L / PE		230 / 400, 3L / N / PE or 3L / PE	
Output Voltage Range (V)	320 ~ 460			320 ~ 460			
Nominal AC Grid Frequency (Hz)	50 / 60			50 / 60			
AC Grid Frequency Range (Hz)	47.5 ~ 51.5 / 57.0 ~ 61.8			45 ~ 55 / 55 ~ 65		45 ~ 55 / 55 ~ 65	
Max. Output Current (A)	40.0	48.0	53.3	80.0	96.0	80	96
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%			<3%			
<b>Efficiency</b>							
Max. Efficiency	98.7%	98.8%	98.8%	98.6%	98.6%	98.6%	
European Efficiency	98.4%	98.5%	98.5%	98.1%	98.1%	98.1%	
<b>Protection</b>							
PV String Current Monitoring	Integrated			Integrated			
PV Insulation Resistance Detection	Integrated			Integrated			
Residual Current Monitoring	Integrated			Integrated			
PV Reverse Polarity Protection	Integrated			Integrated			
Anti-islanding Protection	Integrated			Integrated			
AC Overcurrent Protection	Integrated			Integrated			
AC Short Circuit Protection	Integrated			Integrated			
AC Overvoltage Protection	Integrated			Integrated			
DC Switch	Integrated			Integrated			
DC Surge Protection	Type II			Type II (Type I + II Optional)			
AC Surge Protection	Type II			Type II			
AFCI	Optional			Optional			
Remote Shutdown	Integrated			Integrated			
PID Recovery	Optional			Optional			
<b>General Data</b>							
Operating Temperature Range (°C)	-30 ~ +60			-30 ~ +60			
Relative Humidity	0 ~ 100%			0 ~ 100%			
Max. Operating Altitude (m)	3000			3000			
Cooling Method	Smart Fan Cooling			Smart Fan Cooling			
User Interface	LED, WLAN + APP			LED, LCD (Optional), WLAN + APP			
Communication	RS485, WiFi or 4G (Optional)			RS485, WiFi			
Communication Protocols	Modbus-RTU (SunSpec Compliant)			Modbus-RTU (SunSpec Compliant)			
Weight (kg)	40	40	40	55	55	56	
Dimension (W x H x D mm)	480 x 590 x 200			520 x 660 x 220		520 x 660 x 220	
Topology	Non-isolated			Non-isolated			
Self-consumption at Night (W)	<1			<1			
Ingress Protection Rating	IP65			IP65			
DC Connector	MC4 (4 ~ 6mm <sup>2</sup> )			MC4 (4 ~ 6mm <sup>2</sup> )			
AC Connector	OT / DT Terminal (Max. 25mm <sup>2</sup> )			OT / DT Terminal (Max. 50mm <sup>2</sup> )		OT / DT Terminal (Max. 50mm <sup>2</sup> )	

\*: Compatible grid codes: EN50549-1, C10/11, VDE-AR-N 4105: 2018, NTS type A, CEI 021:2019, CEI 016:2022, UTE C15-712-1, VDE 0126-1-1 VFR2019, PPDS 2022, NRS097-2-1, Dewa:2016. Product not applicable for UK grid code

\*\* : Compatible grid codes: NC RFG type A, NC RFG type B, VDE-AR-N 4110:2018, NTS type B, G99, G100  
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