

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**
Input								
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		
Output								
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%		
Efficiency								
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%		
Protection								
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		
General Data								
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 × H × D mm)	480 × 590 × 200			520 × 660 × 220		520 × 660 × 220		
Topology				Non-isolated		Non-isolated		
Self-consumption at Night (W)				<1		<1		
Ingress Protection Rating				IP65		IP65		
DC Connector				MC4 (4 ~ 6mm²)		MC4 (4 ~ 6mm²)		
AC Connector	OT / DT Terminal (Max. 25mm²)			OT / DT Terminal (Max. 50mm²)		OT / DT Terminal (Max. 50mm²)		

*1: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.

*: 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
Please visit GoodWe website for the latest certificates.