



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

\*: VDE4110 certified, NTS Type B certified. Not available for the EU models: NC RIG Type A compliance documentation.

\*: Please visit GoodWe website for the latest certificates.

\*: All pictures shown are for reference only. Actual appearance may vary.