

GOODWE

SMT Series

50-60kW | Three Phase | Up to 6 MPPTs

GoodWe SMT 50-60kW Series inverter is ideal for medium and large-scale commercial installations. Harvest solar energy and generate environmental-friendly power for increased return on investment brought by high yields with your commercial PV system. Its unique fuse-free design makes it exceptionally easy to maintain for operators, saving time and money. The superb safety design provides reliable protections in outdoor installation and guarantees stable usage and generation even in extreme conditions. SMT 50-60kW Series is a pioneering inverter for your business and value.



Smart Control & Monitoring

- Remote data monitoring
- Multi-protocol compatibility



Friendly & Thoughtful Design

- 200V-950V wide input operating voltage range
- Fuse-free design



Superb Safety & Reliability

- Type II Surge Protection for both DC and AC
- IP65 ingress protection



High Power Generation for High Returns

- Maximum 15A DC input current per string
- 150% DC input oversizing & 110% AC output overloading

Technical Data	GW50KS-MT	GW60KS-MT
Input		
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	
Output		
Nominal Output Power (kW)	50	60
Nominal Output Apparent Power (kVA)	50	60
Max. AC Active Power (kW)	55 ^{*1}	66 ^{*1}
Max. AC Apparent Power (kVA)	55 ^{*2}	66 ^{*2}
Nominal Output Voltage (V)	230 / 400 ^{*3} , 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)	80.0	96.0
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	
Efficiency		
Max. Efficiency	98.6%	
European Efficiency	98.1%	
Protection		
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 ^{*4}	
DC Surge Protection	Type II (Type I + II Optional)	
AC Surge Protection	Type II	
AFCI	Optional	
Emergency Power Off ^{*5}	Optional	
Remote Shutdown ^{*6}	Optional	
PID Recovery	Optional	
General Data		
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 or 4G or PLC (Optional) ^{*7}	
Communication Protocols	Modbus-RTU (SunSpec Compliant)	
Weight (kg)	55	
Dimension (W × H × D mm)	520 × 660 × 220	
Topology	Non-isolated	
Self-consumption at Night (W)	<1	
Ingress Protection Rating	IP65	
DC Connector	MC4 (4 ~ 6mm ²)	
AC Connector	OT / DT Terminal (Max. 50mm ²)	

*1: For Brazil and Chile Max. AC Active Power (kW): GW50KS-MT is 50; GW60KS-MT is 60.

*2: For Brazil and Chile Max. AC Apparent Power (kVA): GW50KS-MT is 50; GW60KS-MT is 60.

*3: For Brazil and Thailand (PEA) Nominal Output Voltage (V): 220 / 380, 3L / N / PE or 3L / PE.

*4: For Australia DC Switch is PV2.

*5: For Indian Emergency Power Off: Optional.

*6: For Europe Remote Shutdown: integrated.

*7: For Brazil Communication is RS485, WiFi, USB, PLC (Optional).

*: Please visit GoodWe website for the latest certificates.