

SMT-US Series

(North America only)

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

The GoodWe SMT-US Series inverter is ideal for medium and large-scale commercial installations. Harvest maximum solar energy and generate environmental-friendly power for an increased return on investment. 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 installations and guarantees stable usage and generation even in extreme conditions.



Smart Control & Monitoring

- Remote data monitoring
- Multi-protocol compatibility



Maximum Return on Investment

- 180V-980V wide input operating voltage range
- 150% DC input oversizing & 110% AC output overloading



Superb Safety & Reliability

- Type II Surge Protection for both DC and AC
- Type 4X ingress protection



Fully Integrated Design

- AC terminal compatible with aluminum cables
- Fuse-free design

Product Model	GW50K-SMT-US	GW60K-SMT-US
Input		
Max. Input Voltage (V)	1000	
MPPT Operating Voltage Range (V)	180 ~ 980	
Start-up Voltage (V)	200	
Nominal Input Voltage (V)	720	
Max. Input Current per MPPT (A)	30	
Max. Short Circuit Current per MPPT (A)	50	
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	66
Max. AC Apparent Power (kVA)	55	66
Nominal AC Grid Voltage (V)	480, 3L / N / PE or 3L / PE	
Nominal AC Grid Frequency (Hz)	60	
Max. Output Current (A)	67	80
Power Factor	~ 1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	
Efficiency		
Max. Efficiency	98.5%	
CEC Efficiency	98.2%	
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	
AC Switch	Integrated	
DC Surge Protection	Type II	
AC Surge Protection	Type II	
AFCI	Integrated	
Rapid Shutdown	Integrated	
General Data		
Operating Temperature Range	-30 ~ +60°C (>45°C derating) -22 ~ +140°F (>113°F derating)	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude	4000m (>3000m derating) 13123ft (>9842.5ft derating)	
Cooling Method	Smart Fan Cooling	
Display	LED, WLAN + APP	
Communication	RS485, WiFi, USB, 4G or WiFi + LAN (Optional)	
Communication Protocols	Modbus-RTU (SunSpec Compliant)	
Weight	70kg 154.3lb	
Dimensions (W × H × D)	520 × 990 × 220 (mm) 20.5 × 39.0 × 8.7 (in)	
Topology	Non-isolated	
Self-consumption at Night (W)	<7	
Ingress Protection Rating	TYPE 4X	
DC Connector	#12 ~ #8AWG Cu	
AC Connector	OT (#5-3 / 0AWG, Cu or Al)	

*: Please visit GoodWe website for the latest certificates.