



## High Power Generation

- · 98.5% max efficiency
- · 180V-980V wide input operating voltage range
- · Up to 6 MPPTs with 2 inputs each for maximum flexibility and optimization
- 150% DC input oversizing & 110% AC outputoverloading



## Advanced Design

- · AC terminal compatible with aluminum cables
- · Fast installation and fast commissioning (Set up via SolarGo App within minutes)
- · Smart shadow scan
- · Fuse-free design



## Smart Control & Monitoring

- · Multi-protocol compatibility
- · Remote data monitoring and firmware updates



## Advanced Safety & Reliability

- · Built-in Type II Surge Protection for both DC and AC
- · Integrated AFCI, driven by AI, proactively improves fire safety
- · NEMA Type 4X rated for indoor or outdoor use
- · Meets rapid shutdown requirements
- · UL certified



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)
Noise Level	<65db (A)
Topology	Non-isolated
Self-consumption at Night (W)	<12 <sup>'1</sup>
Ingress Protection Rating	TYPE 4X
DC Connector	#12 ~ #8AWG Cu
AC Connector	OT (#5-3 / 0AWG, Cu or AI)
	UL 1741 (Third Edition, Dated September 28, 2021) IEEE 1547-2018, IEEE1547.1-2020, 1547a-2020,
Certification	Grid support function is verified according to UL 1741 Supplement SB and IEEE 1547.1-2020 with the SRDs of IEEE 1547-2018, IEEE 1547a-2020 and Hawaiian Electric Co. SRD-V2.0, IEEE 2030.5-2018

<sup>\*1:</sup> Self-consumption at night will be less than 1W without the optional RSD and 24-hour load monitoring.
\*: Please visit GoodWe website for the latest certificates.