



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	
nput			
Max. Input Voltage (V)	100	00	
MPPT Operating Voltage Range (V)	180 ~ 980		
Start-up Voltage (V)	200		
Nominal Input Voltage (V)	72		
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			
Output			
		CO.	
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 / F		
Nominal AC Grid Frequency (Hz)	60		
Max. Output Current (A)	67	80	
Power Factor	~1 (Adjustable from 0.8		
Max. Total Harmonic Distortion	<3	%	
Efficiency			
Max. Efficiency	98.5%		
CEC Efficiency	98.2%		
Protection			
		and a	
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 ~ 1	00%	
May Operating Altitude		4000m (>3000m derating)	
Max. Operating Altitude	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)		
	· · · · · · · · · · · · · · · · · · ·	70kg	
Veight	154.3lb		
Dimensions (W × H × D)	520 × 990 × 220 (mm)		
אוטיפוואווווע (W × ח × D)	20.5 × 39.0 × 8.7 (in)		
Noise Level	<65db (A)		
Topology	Non-isolated		
Self-consumption at Night (W)	<1	<12 ^{*1}	
ngress Protection Rating	TYPE 4X		
OC Connector	#12 ~ #8AWG Cu		
AC Connector	OT (#5-3 / 0AWG, Cu or Al)		
	UL 1741 (Third Edition, Dated September 28, 2021) IEEE 1547-2018, IEEE1547.1-2020, 1547a-2020,		
	Grid support function is verified according to UL 1741 Supplement SB and		
Certification	IEEE 1547.1-2020 with the SRDs of IEEE 1547-2018, IEEE 1547a-2020 and Hawaiian Electric Co.		
JGI IIIIGAIIUI I	SRD-V2.0, IEEE 2030.5-2018		
	CSA C22.2 No. 0.8-19 and UL 1998 Edition 3		
	PVRSS function according to NEC-2020 Article 690.12 and CEC-2018 Sec 64-218.		

^{*1:} 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.