



## High Power Generation

- · 97.5% max efficiency and 96.5% CEC efficiency
- · 180V-950V wide operating voltage range
- · Up to 4 MPPTs with 2 inputs each for maximum flexibility and optimization
- · 180% DC input oversizing



## Advanced Design

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



## Smart Control & Monitoring

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



## Advanced Safety & Reliability

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



Technical Data	GW22KLV-SMT-US	GW28KLV-SMT-US	
Input			
Max. Input Power (kW)	39.6	50.4	
Max. Input Voltage (V)		000	
MPPT Operating Voltage Range (V)		180 ~ 950	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		450	
Max. Input Current per MPPT (A)		32	
Max. Short Circuit Current per MPPT (A)		45	
Number of MPP Trackers	3	4	
Number of Strings per MPPT		2	
Output			
Nominal Output Power (kW)	22	28	
Nominal Output Apparent Power (kVA)	22	28	
Max. AC Active Power (kW)	22@208V	28@208V	
	23@220V	30@220V	
	25@240V	32@240V	
	22@208V	28@208V	
Max. AC Apparent Power (kVA)	23@220V	30@220V	
	25@240V	32@240V	
Nominal Output Voltage (V)		L/N/PE or 3L/PE	
	183.0 ~ 2	228.8@208V	
Output Voltage Range (V)	193.6 ~ 2	242.0@220V	
	211.2 ~ 2	264.0@240V	
Nominal AC Grid Frequency (Hz)		60	
AC Grid Frequency Range (Hz)		~ 61.2	
Max. Output Current (A)	61.0	77.7	
Power Factor  Max. Total Harmonic Distortion		8 leading to 0.8 lagging)	
	<u> </u>		
Efficiency			
Max. Efficiency		7.5%	
CEC Efficiency	96	3.5%	
Protection			
PV String Current Monitoring	Inte	grated	
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 Integrated		
DC Switch DC Surge Protection	Type II (Type I + II optional)		
AC Surge Protection	Type II		
AFCI	Integrated		
Rapid Shutdown	Integrated		
Power Supply at Night		grated	
General Data			
Gonorai 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		
User Interface	LED, WLAN + APP		
Communication	RS485, WiFi + LAN, 4G (Optional)  Modbus-RTU (SunSpec Compliant)		
Communication Protocols	,	,	
Weight	60kg 132.2ibs	62kg 136.4ibs	
		130.4lbs	
Dimension (W $\times$ H $\times$ D)		$0.0 \times 8.7 \text{ (in)}$	
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 Al )		
	UL 1741 (Third Edition, Dated September 28. 202	21) IEEE 1547-2018, IEEE1547.1-2020, 1547a-2020,	
	, - 1		
	Grid support function is verified acc	ording to UL 1741 Supplement SB and	
Cartification		ording to UL 1741 Supplement SB and 2018, IEEE 1547a-2020 and Hawaiian Electric Co.	
Certification	IEEE 1547.1-2020 with the SRDs of IEEE 1547-2		

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