



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)		00
Nominal Input Voltage (V)	4	50
Max. Input Current per MPPT (A)		32
Max. Short Circuit Current per MPPT (A)	1	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
Output Voltage Range (V)		28.8@208V
		42.0@220V
		64.0@240V
Nominal AC Grid Frequency (Hz)		60
AC Grid Frequency Range (Hz)		~ 61.2
Max. Output Current (A)	61.0	77.7
Power Factor		8 leading to 0.8 lagging)
Max. Total Harmonic Distortion	<	3%
Efficiency		
Max. Efficiency		.5%
CEC Efficiency	96	5.5%
Protection		
PV String Current Monitoring	Inteç	grated
PV Insulation Resistance Detection	Inteç	grated
Residual Current Monitoring	Integrated	
PV Reverse Polarity Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Overcurrent Protection		grated
AC Short Circuit Protection	Integrated	
AC Overvoltage Protection	Integrated	
DC Switch	Integrated Table 11 (Table	
DC Surge Protection	Type II (Type I + II optional)	
AC Surge Protection	Type II	
AFCI Popid Shutdown	Integrated Integrated	
Rapid Shutdown Power Supply at Night		grated grated
	Inteç	grateu
General Data		
Operating Temperature Range	-30 ~ +60°C (>45°C derating)	
Operating Temperature Range	-22 ~ +140°F (>113°F derating)	
Relative Humidity	0 ~ 100%	
•	4000m (>3000m derating)	
Max. Operating Altitude	13123ft (>9842.5ft derating)	
Cooling Method	Smart Fan Cooling	
User Interface	LED, WLAN + APP	
Communication	RS485, WiFi + LAN, 4G (Optional)	
Communication Protocols	Modbus-RTU (SunSpec Compliant)	
Weight	60kg	62kg
	132.2ibs	136.4ibs
Dimension (W \times H \times D)		\times 220 (mm) .0 \times 8.7 (in)
Topology		
Self-consumption at Night (W)	Non-isolated <12 ^{*1}	
Ingress Protection Rating	TYPE 4X	
DC Connector	#12 ~ #8AWG Cu	
AC Connector	#12 ~ #6AWG Cu OT (#5-3 / 0AWG, Cu or Al)	
		1) IEEE 1547-2018, IEEE1547.1-2020, 1547a-2020,
	Grid support function is varified according	ording to LIL 17/11 Supplement SR and
		ording to UL 1741 Supplement SB and
Certification	IEEE 1547.1-2020 with the SRDs of IEEE 1547-2	2018, IEEE 1547a-2020 and Hawaiian Electric Co.
Certification	IEEE 1547.1-2020 with the SRDs of IEEE 1547-2 SRD-V2.0, IEE	

^{*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.
*: All pictures shown are for reference only. Actual appearance may vary.