



High Power Generation

- · 97.5% max efficiency and 96.5% CEC efficiency
- · 180V-950V wide operating voltage range
- \cdot 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)	3	32
Max. Short Circuit Current per MPPT (A)		15
Number of MPP Trackers	3	4
Number of Strings per MPPT	<u> </u>	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
1 10 1 10 1 10 10	25@240V	32@240V
Nominal Output Voltage (V)		_/ N / PE or 3L / PE
Output Voltage Range (V)		28.8@208V
		42.0@220V
Nominal AC Grid Fraguenay (U-)		64.0@240V
Nominal AC Grid Frequency (Hz) AC Grid Frequency Range (Hz)		60 ~ 61.2
Max. Output Current (A)	61.0	~ 01.2 77.7
Power Factor		B leading to 0.8 lagging)
Max. Total Harmonic Distortion		3%
Efficiency		
Max. Efficiency	97.	.5%
CEC Efficiency		.5%
Protection		
PV String Current Monitoring	Integ	grated
PV Insulation Resistance Detection	Integ	rated
Residual Current Monitoring	Integrated	
PV Reverse Polarity Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Overcurrent Protection	Integrated	
AC Short Circuit Protection	Integrated Integrated	
AC Overvoltage Protection DC Switch	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		yrated
General Data		
5.55.u. Butu	00 0000 /	4500 donation)
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 User Interface	Smart Fan Cooling LED, WLAN + APP	
Oser Interface Communication	RS485, WiFi + LAN, 4G (Optional)	
Communication Protocols	Modbus-RTU (SunSpec Compliant)	
	60kg	62kg
Weight	132.2ibs	136.4ibs
Dimension (W \times H \times D)		× 220 (mm) 0 × 8.7 (in)
Topology	20.5 × 39.0 × 8.7 (in) Non-isolated	
Self-consumption at Night (W)	Nori-isolated <12 ^{*1}	
Ingress Protection Rating	TYPE 4X	
DC Connector	#12 ~ #8AWG Cu	
AC Connector	OT (#5-3 / OAWG, Cu or AI)	
70 00111100101	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	
0 00	IEEE 1547.1-2020 with the SRDs of IEEE 1547-2018, IEEE 1547a-2020 and Hawaiian Electric Co.	
Certification	SRD-V2.0, IEEE 2030.5-2018	
	011D -VZ.0, IEE	
	004 000 0 N= 0 0 40	and UL 1998 Edition 3

^{*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.