

SMT-US Series

Three Phase I Up to 6 MPPTS I 1000Vdc 50/60kW at 480V

The flagship of its C&I inverter solution suite, the GoodWe 480V inverter is designed for medium to large-scale C&I installations. The SMT-US inverter is an advanced and cost-effective string inverter that offers up to 6 MPPTs and meets rapid shutdown standards without requiring additional hardware. This enables an improved LCOE for the asset owner, while reducing the amount of time on the roof for installation.



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

- \cdot 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

GOODWE

Pr	oduct Model	GW50K-SMT-US	GW60K-SMT-US
Inp	out		
Max	k. Input Voltage (V)	100	0
MP	PT Operating Voltage Range (V)	180 ~	980
Sta	rt-up Voltage (V)	200	
Nor	ninal Input Voltage (V)	720	
Max	k. Input Current per MPPT (A)	30	
Max	x. Short Circuit Current per MPPT (A)	50	
Nur	nber of MPP Trackers	5	6
Nur	nber of Strings per MPPT	2	
Ou	tput		
Nor	ninal Output Power (kW)	50	60
Nor	ninal Output Apparent Power (kVA)	50	60
Max	k. AC Active Power (kW)	55	66
Max	k. AC Apparent Power (kVA)	55	66
Nor	ninal AC Grid Voltage (V)	480, 3L / N / P	E or 3L / PE
Nor	ninal AC Grid Frequency (Hz)	60	
Max	k. Output Current (A)	67	80
Pov	ver Factor	~1 (Adjustable from 0.8 k	eading to 0.8 lagging)
Max	k. Total Harmonic Distortion	<39	0
Eff	iciency		
Max	k. Efficiency	98.5%	
CEO	CEfficiency	98.2	%
Pro	otection		
PV	String Current Monitoring	Integra	ted
PV	Insulation Resistance Detection	Integra	ited
Res	sidual Current Monitoring	Integrated	
PV	Reverse Polarity Protection	Integrated	
Ant	i-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	Туре II	
AC	Surge Protection	Туре II	
AFC		Integrated	
Rap	pid Shutdown	Integrated	
Ge	General Data		
Ope	erating Temperature Range	-30 ~ +60°C (>45°C derating)	
		-22 ~ +140-F (>1	nor deraung)
Rela	ative Humidity		
Max	K. Operating Altitude	4000m (>3000m derating) 13123ft (>9842.5ft derating)	
Cod	bling Method	Smart Fan	Cooling
Dis	play	LED, WLAN	N + APP
Cor	nmunication	RS485, WiFi, USB, 4G or WiFi + LAN (Optional)	
Cor	nmunication Protocols	Modbus-RTU (SunSpec Compliant)	
Wei	ght	70kg 154.3lb	
Dim	nensions ($W \times H \times D$)	520 × 990 × 220 (mm)	
Noi		20.5 × 39.0 × 8.7 (in) <65db (A)	
Top		Non-isolated	
Self	-consumption at Night (W)	<12'1	
Ina	ress 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, 2021) IEEE 1547-2018, IEEE1547.1-2020, 1547a-2020, 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.	
Certification SRD-V2.0, IEEE 2030.5-2018 CSA C22.2 No. 0.8-19 and UL 1998 Edition		2030.5-2018 nd 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.