

SMT Series

80kW | Three phase | 6 MPPTs

The SMT Series string inverter of the 80kW capacity, is an ideal choice for commercial and industrial (C&I) applications, delivering superior productivity with enhanced energy yields and impressive power density. Specifically tailored to accommodate high-power PV modules, it boasts multiple MPPTs and a high input current of 21A per DC string, ensuring optimized overall yield. Safety is paramount, with both DC and AC sides featuring Type II surge protection, while AFCI is available as an optional feature.



Smart Control & Monitoring

- Remote data monitoring
- Compatible with multiple communication methods



Superb Safety & Reliability

- Type II Surge Protection for both DC and AC
- IP66 protection for outdoor installation safety
- AFCI optional¹



High Power Generation for High Returns

- Up to 150% DC input oversizing
- 6 MPPTs, Max. efficiency up to 98.6%



Flexible & Adaptable Applications

- Compatible with 182/210mm modules
- Wide input operating voltage range

SMT Series

GOODWE

Technical Data	GW80K-SMT
Input	
Max. Input Voltage (V)	1100
MPPT Operating Voltage Range (V)	180 ~ 1000
Start-up Voltage (V)	200
Nominal Input Voltage (V)	600
Max. Input Current per MPPT (A)	42
Max. Short Circuit Current per MPPT (A)	52.5
Number of MPP Trackers	6
Number of Strings per MPPT	2
Output	
Nominal Output Power (kW)	80
Nominal Output Apparent Power (kVA)	80
Max. AC Active Power (kW)	88
Max. AC Apparent Power (kVA)	88
Nominal Output Voltage (V)	220 / 380, 230 / 400, 3L / N / PE or 3L / PE
Output Voltage Range (V)	323 ~ 457
Nominal AC Grid Frequency (Hz)	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65
Max. Output Current (A)	128
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Total Harmonic Distortion	<3%
Efficiency	
Max. Efficiency	98.6%
European Efficiency	98.1%
Protection	
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
DC Surge Protection	Type II (Type I + II Optional)
AC Surge Protection	Type II
AFCI	Optional
Remote Shutdown	Optional
PID Recovery	Optional
Reactive Power Compensation at Night	Optional
Power Supply at Night	Optional
General Data	
Operating Temperature Range (°C)	-30 ~ +60
Relative Humidity	0 ~ 100%
Max. Operating Altitude (m)	4000
Cooling Method	Smart Fan Cooling
User Interface	LED, LCD (Optional), WLAN + APP
Communication	RS485, WiFi or LAN or 4G
Communication Protocols	Modbus-RTU
Weight (kg)	64
Dimension (W x H x D mm)	700 x 550 x 260
Topology	Non-isolated
Self-consumption at Night (W)	<1
Ingress Protection Rating	IP66
DC Connector	MC4 (4~ 6mm ²)
AC Connector	OT / DT terminal (Max. 150mm ²)

*: Please visit GoodWe website for the latest certificates.

*1: Optional functions or devices are purchased separately.