GOODWE

SMT Series

25-36kW I Three Phase I 3 MPPTs

The GoodWe SMT Series three-phase inverter is ideal for commercial rooftop system solutions. The SMT series achieves maximum efficiency of 98.8% and features unique design highlights, including solid capacitors, fuse-free design, and optional Arc Fault Circuit Interrupter (AFCI) function. These new features ensure a longer lifespan and a higher safety level of operation, allowing for an improved user experience. With a compact design and weight of just 40kg, the SMT series is more convenient to install. With a maximum DC input voltage of 1100V, a wider MPPT range for complex rooftops, and a start-up voltage of 180V, the SMT series guarantees an earlier generation of power and a longer working time to maximize long-term returns and profitability in safe operating conditions.

Smart Control & Monitoring

· String level monitoring
· Dynamic power export limit

Optimal Generation for Higher Return

· 98.8% Max. Efficiency
· Up to 130% DC input oversizing & 110% AC output overloading

Superb Safety & Reliability

· Optional Arc-fault circuit interrupter*
· Optional Type II SPD on both DC and AC*

Friendly & Thoughtful Design

· 40kg compact design
· Power line communication optional*

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Technical Data	GW25K-MT	GW29.9K-MT	GW30K-MT	GW36K-MT
Input				
Max. Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 950	200 ~ 950	200 ~ 950	200 ~ 950
Start-up Voltage (V)	180	180	180	180
Nominal Input Voltage (V)	600	600	600	600
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5	37.5	37.5
Number of MPP Trackers	3	3	3	3
Number of Strings per MPPT	2	2	2	2
Output				
Nominal Output Power (kW)	25.0	29.9	30.0	36.0*1
Nominal Output Apparent Power (kVA)	25.0	29.9	30.0	36.0*1
Max. AC Active Power (kW)	27.5*2	29.9	33.0*2	36.0*2
Max. AC Apparent Power (kVA)	27.5*3	29.9	33.0*3	36.0*3
Nominal Output Voltage (V)	400*4, 3L / N / PE or 3L / PE	400, 3L / N / PE or 3L / PE	400*4, 3L / N / PE or 3L / PE	
Output Voltage Range (V)	320 ~ 460	320 ~ 460	320 ~ 460	320 ~ 460
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	47.5 ~ 51.5 / 57.0 ~ 61.8			
Max. Output Current (A)	40.0	43.3	48.0	53.3
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.7%	98.8%	98.8%	98.8%
European Efficiency	98.4%	98.5%	98.5%	98.5%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated*5	Integrated*5	Integrated*5	Integrated*5
DC Surge Protection	Type III (Type II Optional)			
AC Surge Protection	Type III (Type II Optional)			
AFCI	Optional	Optional	Optional	Optional
Emergency Power Off	Optional*6	Optional*6	Optional*6	Optional*6
Remote Shutdown	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	3000	3000	3000	3000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface	LED, LCD (Optional), WLAN + APP			
Communication	RS485, WiFi or 4G or PLC(Optional)*7			
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	40.0	40.0	40.0	40.0
Dimension (W × H × D mm)	480 × 590 × 200	480 × 590 × 200	480 × 590 × 200	480 × 590 × 200
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65
DC Connector	MC4 (Max. 6mm²)	MC4 (Max. 6mm²)	MC4 (Max. 6mm²)	MC4 (Max. 6mm²)
AC Connector	OT / DT Terminal (Max. 25mm²)			

*1: 33kW for Italy, 36kW for other country.
*2: For Brazil and Chile Max. AC Active Power (kW): GW25K-MT is 25; GW30K-MT is 30;GW36K-MT is 36.
*3: For Brazil and Chile Max. AC Apparent Power (kVA): GW25K-MT is 25; GW30K-MT is 30; GW36K-MT is 36.
*4: For Brazil Nominal Output Voltage is 380V, 3L / N / PE or 3L / PE.
*5: For Australia DC Switch is PV2 (Integrated).
*6: For Indian Emergency Power Off: Optional.
*7: For Brazil Communication is RS485, WiFi, USB, PLC (Optional).
*: Optional functions or devices are purchased separately.
*: Please visit GoodWe website for the latest certificates.