



MPPT Solar Inverter

GT-H2450M27P9

Datasheet



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1.Information on this Datasheet

This datasheet is valid for the following machine:

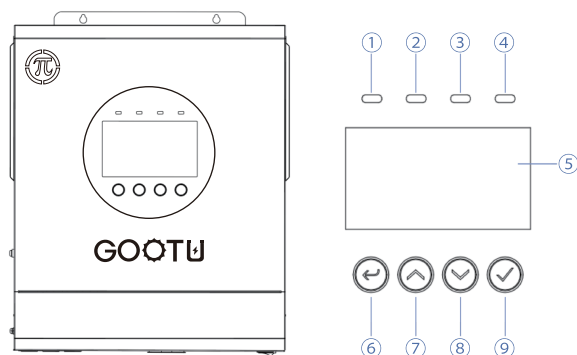
– 5000W inverter

2.Introduction

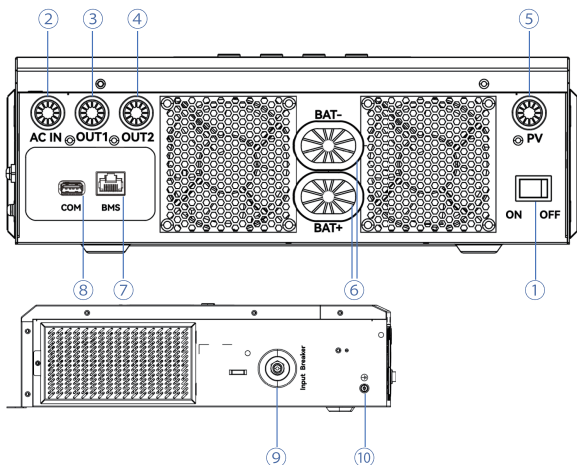
2.1 Features

- Rated power 5KW/5KVA, power factor 1
- MPPT range 60V~450V, 500Voc
- High frequency with small size and light weight
- Pure sine wave AC output
- Solar and grid power loads at the same time
- CAN/RS485 for BMS communication
- Ability to work without battery
- WIFI remote monitoring (optional)
- Dual AC output
- Feed-in to grid

2.2 Product Overview



- ① AC Indicator
- ② Invert Indicator
- ③ Charging Indicator
- ④ Fault Indicator
- ⑤ LCD Display
- ⑥ ESC Button
- ⑦ Up Button
- ⑧ Down Button
- ⑨ Enter Button



- ① Power On/Off Switch
- ② AC Input
- ③ AC Output 1
- ④ AC Output 2
- ⑤ PV Input
- ⑥ Battery Input
- ⑦ BMS Port
- ⑧ COM Port
- ⑨ AC Input Breaker
- ⑩ PE

3. Packing List

No.	Item	Quantity	Description	Remarks
1	Inverter	1		
2	Datasheet	1	English	
3	User manual	1	English	
4	Tubular terminal	10	E6010	For AC input, AC output, PV input.
5	OT terminal	1		For PE

4.Specifications

AC Input	
Rated Input Voltage (VAC)	208/220/230/240; L+N+PE
Voltage Range (VAC)	90~280 (APP mode); 170~280 (UPS mode)
Frequency (Hz)	50/60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5 (Output Power rating will be reduced to 90%, when setting the Output Voltage to 208V)
Surge Power (kVA)	10
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60±0.1%
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
WaveForm	Pure SineWave
Overload Capacity (Battery Mode)	1min@102%~120% load, 10s >120% load
Max. Efficiency (Battery Mode)	93.5%@24V
Charger(PV/AC)	
Solar Charger Type	MPPT
Max PV Input Current/Power	27A/9000W
MPPT Range@Operating Voltage (VDC)	60~450
PV Start-up Voltage	60Vdc
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	160
Max AC Charge Current (A)	160
Max. Charge Current (PV+AC) (A)	160
Battery	
Normal Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
General Data	
HMI	LCD
Interface	RS485/RS232/USB
Monitoring	WiFi(Optional)

General Data	
Ingress Protection	IP21
Operating Temperature	-10°C~60°C
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature	-15°C~60°C
Net Weight (kg)	8.4
Dimensions (W*H*D)	410*336*110mm
Max. Operating Altitude	4000m (Derating above 1000m)

5. Notes about Installation

1. The L and N cable of the AC Input port must not be reverse-connected. The tool used to distinguish between L and N cable is voltage tester (test pen) or multimeter.

Notes: Updates to the content and version of this datasheet will not be notified separately.

