



MPPT Solar Inverter

GT-H4865M27P9

GT-H4865M27P9PL

Datasheet



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1.Information

This datasheet is valid for the following machine:

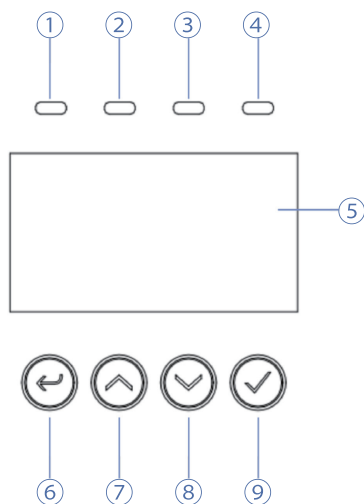
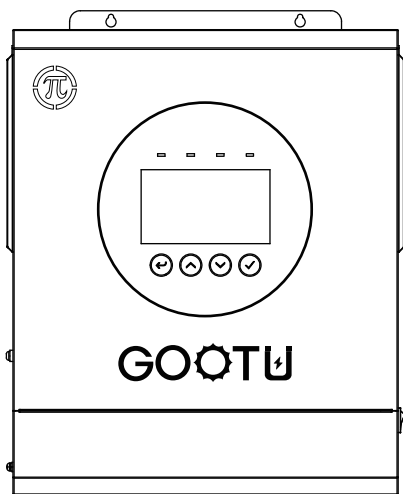
- 6500W non-parallel inverter
- 6500W parallel inverter

2.Introduction

2.1 Features

- Rated power 6.5KW/6.5KVA, power factor 1
- MPPT range 60V~450V, 500Voc
- High frequency with small size and light weight
- Solar and grid power loads at the same time
- Ability to work without battery
- 9 inverters in parallel (Only for parallel model)
- Dual AC output
- Feed-in to grid
- Pure sine wave AC output
- WIFI remote monitoring (optional)
- CAN/RS485 for BMS communication

2.2 Product Overview



① AC Indicator

② Invert Indicator

③ Charging Indicator

④ Fault Indicator

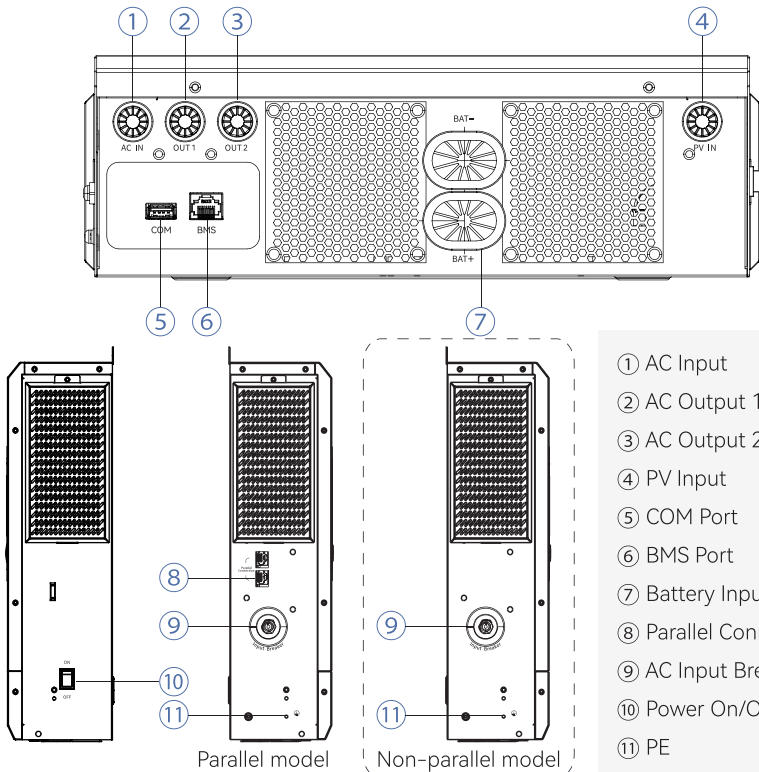
⑤ LCD Display

⑥ ESC Button

⑦ Up Button

⑧ Down Button

⑨ Enter Button



- ① AC Input
- ② AC Output 1
- ③ AC Output 2
- ④ PV Input
- ⑤ COM Port
- ⑥ BMS Port
- ⑦ Battery Input
- ⑧ Parallel Connection
- ⑨ AC Input Breaker
- ⑩ Power On/Off Switch
- ⑪ 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
6	Ethernet Cable	1		For parallel communication

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)	6.5 (Output Power rating will be reduced to 90%, when setting the Output Voltage to 208V. Output Power rating will be reduced to 95% in parallel mode.)

Surge Power (kVA)	12
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%~110% load 10s@ >110% load
Max. Efficiency (Battery Mode)	94%@48V
Parallel Quantity	9
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	80Vdc
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV+AC) (A)	120
Battery	
Normal Voltage (VDC)	48
Battery Type	Lithium and Lead-acid
General Data	
HMI	LCD
Interface	RS485/CAN/RS232, Parallel ports(only in parallel model)
Monitoring	WiFi(Optional)
Ingress Protection	IP21
Operating Temperature	-10°C~60°C
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature	-15°C~60°C
Max. Operating Altitude	4000m (Derating above 2000m)

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.
2. The N cable of the AC Input and AC Output can not be connected in parallel system.

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

