* 此页非印刷 *

打印要求:

成型尺寸	148×210mm
材质	80 克双胶纸
工艺	黑白印刷
成型方式	双面打印对折

* 此页非印刷 *

MPPT Solar Inverter

PV5000-24 S4.0 LV

Datasheet

1.Information on this Manual

1.1 Validity

This manual is valid for the following devices:

- Solar inverter

2.Introduction

2.1 Features

Rated power 4kVA/4kW, 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

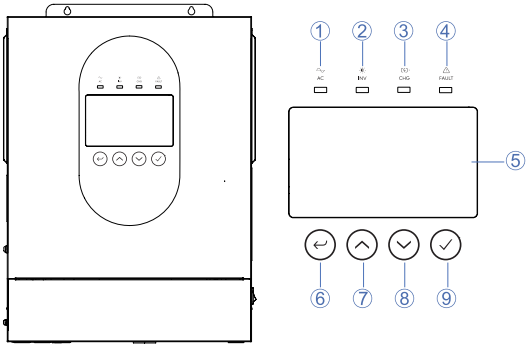
WIFI remote monitoring (optional)

Dual AC output (optional)

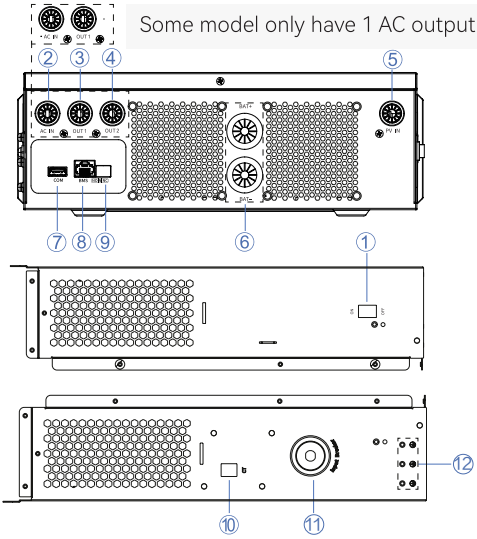
Feed-in to grid

Support CT (optional)

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 COM Port
⑧ BMS Port
⑨ Dry Contact (Input voltage ≤ 60V)
⑩ CT
⑪ AC Input Breaker
⑫ 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		Gray
5	Tubular terminal	1		Yellow
6	Current transformer	1		Optional

4. Specifications

AC Input	
Rated Input Voltage (VAC)	110/120; L+N+PE
Voltage Range (VAC)	90~140V (APP/GEN/UPS mode)
Frequency (Hz)	50/60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	4 (Output power will be reduced if output voltage set to 100/110V. The output current will be limited at 33A.)
Surge Power (kVA)	8
Voltage (VAC)	100/110/120/127

Power Factor (PF)		1
Frequency (Hz)		50/60
Switch Time (ms)		10 (APP/UPS mode) / 20 (GEN mode)
Wave Form		Pure SineWave
Overload Capacity	PV+Battery/PV Mode	1min@102%~120%Load; 10s@120~200%Load
	Bypass Mode	1min@40-50A; 10s@50A-55A; 200ms@ > 55A
Max. Efficiency (Battery Mode)		92.6%
Charger(PV/AC)		
Solar Charger Type		MPPT
Max PV Input Current/Power (A/kW)		18/5000
MPPT Range@Operating Voltage (VDC)		60-450
PV Start-up Voltage (VDC)		70
Max PV Open Circuit Voltage (VDC)		500
Max PV Charge Current (A)		100
Max AC Charge Current (A)		100
Max. Charge Current (PV+AC) (A)		100
Battery		
Normal Voltage (VDC)		24
Battery Type		Lithium/Lead-acid
General Data		
HMI		LCD
Interface		RS232 / RS485 /CAN/Dry Contact/CT (optional)
Monitoring		WiFi(optional/built-in/external)
Ingress Protection		IP21
Operating Temperature		-10~60
Relative Humidity		5%~95% (Non-condensing)
Storage Temperature		-15~65
Max. Operating Altitude		4000 (Derating above 2000)

5. Derating Curve

Maximum Load Capacity

Only Battery	4000W@26.7V
Only PV / PV+ Battery	4000W
Bypass Current	40A@25℃

