* 此页非印刷 *

打印要求:

成型尺寸	148x210mm
材质	100 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

PV3000-12 S2.0

Datasheet

1.Information

This datasheet is valid for the following machine:

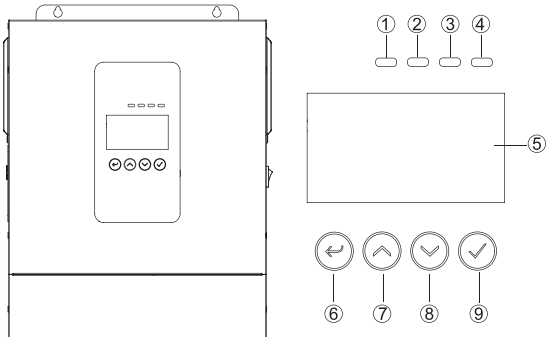
- Solar inverter

2.Introduction

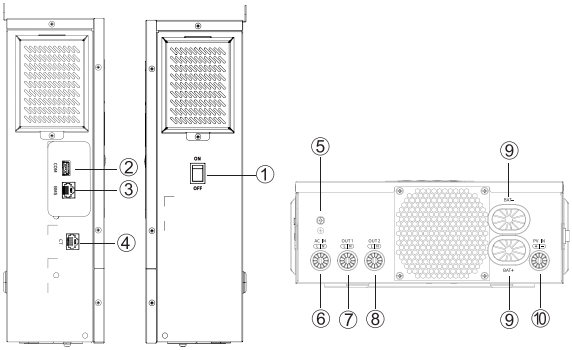
2.1 Features

- Rated power 2kVA/2kW, power factor 1
- MPPT ranges 30V~400V, 450Voc
- High frequency with small size and light weight
- Pure sine wave AC output
- Solar and grid can power loads at the same time
- RS485/CAN for BMS communication
- Configurable AGM FLD LIB FEL battery types via LCD setting
- Operable without a battery
- Dual output (optional)
- WIFI remote monitoring (optional)
- Support CT/Meter (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
② COM Port
③ BMS Port
④ CT Port
⑤ PE Port
⑥ AC Input
⑦ AC Output 1
⑧ AC Output 2
⑨ Battery Input
⑩ PV Input

Some model doesn't have CT port.
Some model doesn't have BMS port.

3. Packing List

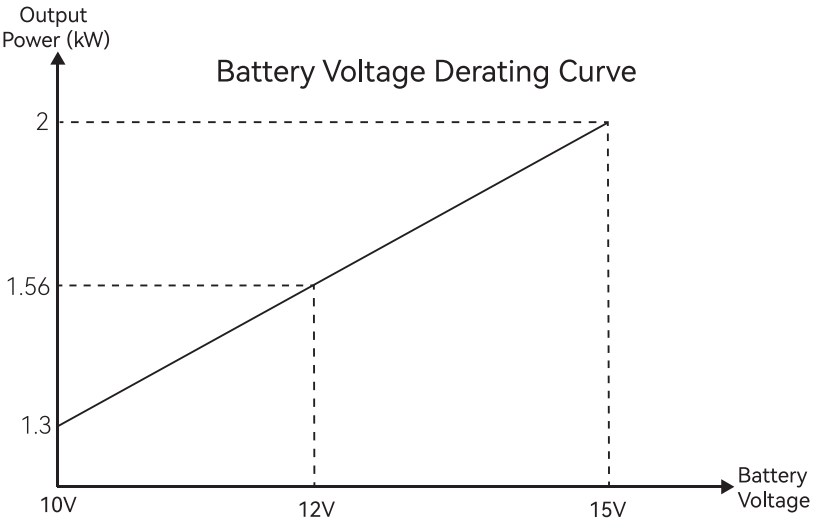
No.	Item	Quantity	Description	Remarks
1	Inverter	1		
2	Datasheet	1	English	
3	User Manual	1	English	
4	Wiring Terminal	1	Yellow	
5	Wiring Terminal	8	Gray	
6	Current Transformer	1		Optional

4. Specifications

AC Input		
Rated Input Voltage (VAC)		208/220/230/240; L+N+PE
Voltage Range (VAC)		90~280(APP/GEN mode); 170~264(UPS mode)
Frequency (Hz)		50/60 (Auto Adaptive)
AC Output		
Rated Capacity (kVA/kW)		2 (Output Power rating will be reduced to 90%, when setting the Output Voltage to 208v)
Surge Power (kVA)		4
Voltage (VAC)		208/220/230/240
Power Factor (PF)		1
Frequency (Hz)		50/60
Switch Time (ms)		10(APP/UPS mode)/20(GEN mode)
Wave Form		Pure Sine Wave
Overload Capacity	Off grid Mode: bat+PV	long term@102%~125%Load; 10s@125%~250%Load
	Off grid Mode: bat	150A < Ibat ≤ 170A 30s; 170A < Ibat ≤ 200A 10s; 200A < Ibat 0.5s
	bypass mode: 25℃	1min@17A~19A; 10s@19A~21A; 0.2s@ > 21A
Max. Efficiency (Battery Mode)		91%@12VDC
Charger(PV/AC)		
Solar Charger Type		MPPT
Max PV Input Current/Power (A/kW)		18/3
MPPT Range@Operating Voltage (VDC)		30~400
PV Start-up Voltage (VDC)		40
Max PV Open Circuit Voltage (VDC)		450
Max PV Charge Current (A)		100
Max AC Charge Current (A)		100
Max. Charge Current (PV+AC) (A)		100

Battery	
Normal Voltage (VDC)	12
Battery Type	Lithium and Lead-acid
General Data	
HMI	LCD
Interface	RS485 / CAN / RS232 / CT(optional) / Meter (optional)
Monitoring	WiFi(Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~60℃
Relative Humidity	0%~95% (Non-condensing)
Storage Temperature	-15℃~60℃
Max. Operating Altitude	4000m (Derating above 2000m)

5. Derating Curve



Maximum Load Capacity

Only Battery	1560W@12V
PV+ Battery	2000W
Bypass current	17A@25℃

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