＊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	正反印刷对折

＊此页非印刷＊

MPPT Solar Inverter

PV1000-12 S1.2

Datasheet

1.Information

This datasheet is valid for the following machine:

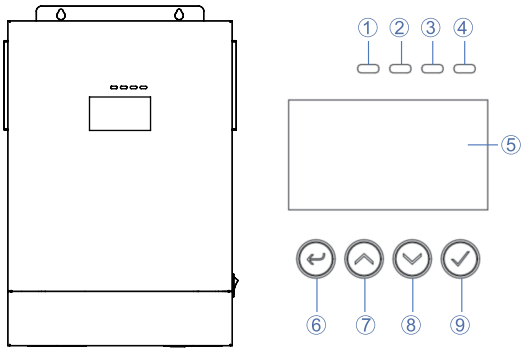
- 1200W inverter

2.Introduction

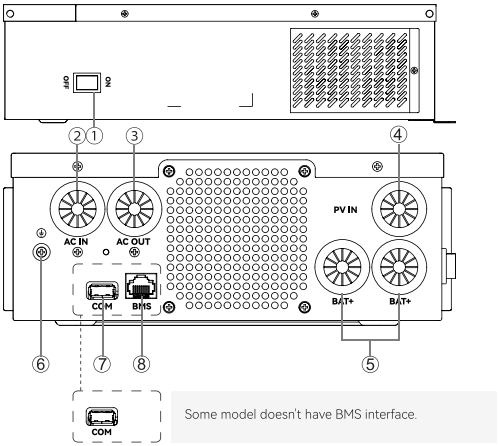
2.1 Features

- Rated power 1.2kVA/1.2kW, power factor 1
- MPPT ranges 18V~100V, 125Voc
- High frequency with small size and light weight
- Pure sine wave AC output
- RS485 BMS communication (optional)
- Configurable AGM FLD LIB FEL battery types via LCD setting

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 AC Input
③ AC Output
④ PV Input
⑤ Battery Input
⑥ PE
⑦ Upgrading USB port
⑧ BMS Port

Some model doesn't have BMS interface.

3. Packing List

No.	Item	Quantity	Description	Remarks
1	Inverter	1		
2	Datasheet	1	English	
3	User manual	1	English	
4	OT Terminal	1		For PE

4. Specifications

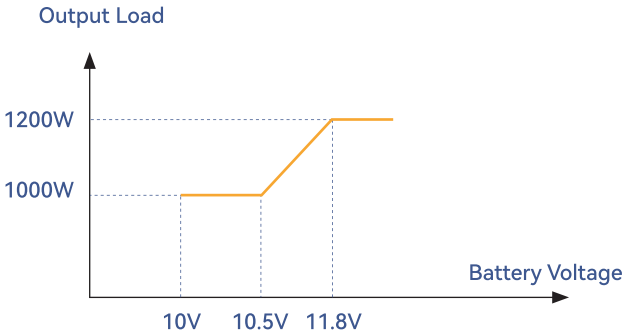
AC Input	
Rated Input Voltage (VAC)	208/220/230/240; L+N+PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	1.2 (Output Power rating will be reduced to 90%, when setting the Output Voltage to 208V)
Surge Power (kVA)	2.4
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60±0.1%
Switch Time (ms)	10 (APP/UPS mode)/ 60 (GEN mode)
WaveForm	Pure SineWave
Overload Capacity (Battery Mode)	10min@102%~120%Load 1min@120%~150%Load 10s@150%~200%Load
Max. Efficiency (Battery Mode)	90%@12VDC
Charger(PV/AC)	
Solar Charger Type	MPPT
Max PV Input Current/Power	14A/1000W
MPPT Range@Operating Voltage (VDC)	18~100
PV Start-up Voltage	20Vdc
Max PV Open Circuit Voltage (VDC)	125
Max PV Charge Current (A)	60
Max AC Charge Current (A)	60
Max. Charge Current (PV+AC) (A)	120
Battery	
Normal Voltage (VDC)	12
Battery Type	Lithium and Lead-acid

General Data	
HMI	LCD
Interface	RS485/RS232
Ingress Protection	IP21
Operating Temperature	-10℃~60℃
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature	-15℃~60℃
Max. Operating Altitude	4000m (Derating above 2000m)

Output Power rating will be reduced due to various conditions.

Battery	PV	AC Input	Max Output Power
L	N	N	Follow the Battery Voltage Derating Curve as shown below.
N	L	N	No Output
N	N	L	Input Voltage * Input Max current 10A
L	L	N	Follow the Battery Voltage Derating Curve as shown below.
N	L	L	Input Voltage * Input Max Current 10A
L	N	L	Input Voltage * Input Max Current 10A
L	L	L	Input Voltage * Input Max Current 10A

Note:The 'L' in the diagram represents the meaning of being accessed or connected, while the 'N' signifies the meaning of not being accessed or not being connected.



Battery Voltage Derating Curve

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