

MPPT Solar Inverter

FGI-S1500

Datasheet

1.Information

This datasheet is valid for the following machine:

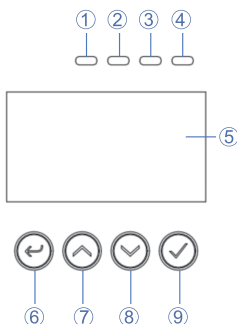
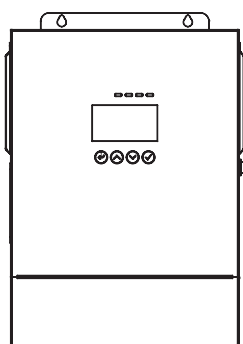
-1500W inverter

2.Introduction

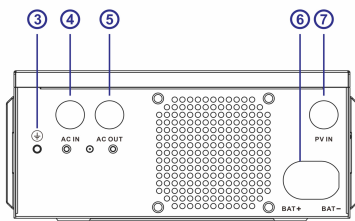
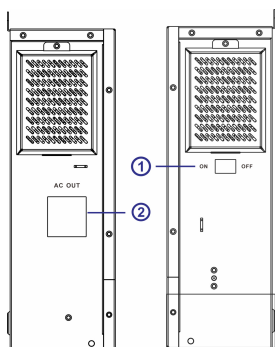
2.1 Features

- Rated power 1.5kVA/kW,power factor 1
- MPPT ranges 17V~115V, 115Voc
- High frequency with small size and light weight
- Pure sine wave AC output
- WIFI remote monitoring (optional)
- RS485/CAN for 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 Output
- ③ PE
- ④ AC Input
- ⑤ AC Output
- ⑥ Battery Input
- ⑦ PV Input

3. Packing List

No.	Item	Quantity	Description	Remarks
1	Inverter	1		
2	Datasheet	1	English	
3	User manual	1	English	

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)	1.5 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/GEN mode)
WaveForm	Pure SineWave
Overload Capacity (Battery Mode)	60s@102%~110%load; 10s@120%~200%load
Max. Efficiency (Battery Mode)	90%@12VDC
Charger(PV/AC)	
Solar Charger Type	MPPT
Max PV Input Current/Power	18A/800W
MPPT Range@Operating Voltage (VDC)	17~115
PV Start-up Voltage (VDC)	20
Max PV Open Circuit Voltage (VDC)	115
Max PV Charge Current (A)	50
Max AC Charge Current (A)	50
Max. Charge Current (PV+AC) (A)	100
Battery	
Normal Voltage (VDC)	12
Battery Type	Lithium and Lead-acid
General Data	
HMI	LCD
Interface	RS485(Optional)/CAN(Optional)/RS232
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
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.

