

MPPT Solar Inverter

FGI-S2500

Datasheet

1.Information

This datasheet is valid for the following machine:

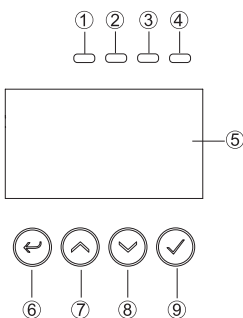
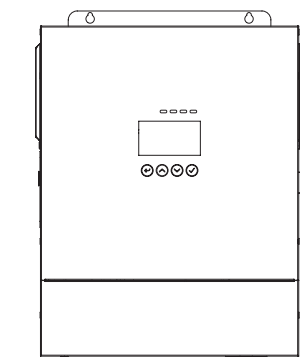
-2500W inverter

2.Introduction

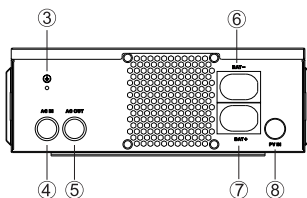
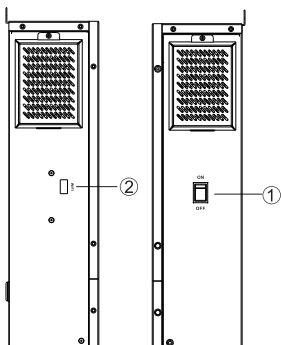
2.1 Features

- Rated power 2.5kVA/2.5kW, 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
- Configurable AGM FLD LIB FEL battery types via LCD setting
- Operable without a battery
- WIFI remote monitoring (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 WIFI(optional)
- ③ PE Port
- ④ AC Input
- ⑤ AC Output
- ⑥ Battery Input -
- ⑦ Battery Input +
- ⑧ PV Input

3. Packing List

No.	Item	Quantity	Description	Remarks
1	Inverter	1		
2	Datasheet	1	English	
3	Wiring Terminal	1	Yellow	
4	Wiring Terminal	8	Gray	
5	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/GEM mode); 170~264(UPS mode)
Frequency (Hz)		50/60 (AUto Adaptive)
AC Output		
Rated Capacity (kVA/kW)		2.5(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 < I _{bat} ≤ 170A 30s; 170A < I _{bat} ≤ 200A 10s; 200A < I _{bat} 0.5s
	bypass mode: 25°C	1min@17A~19A; 10s@19A~21A; 0.2s@ > 21A
Max. Efficiency (Battery Mode)		91% (Max)
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
Monitoring	WiFi(Optional)

General Data	
Ingress Protection	IP21
Operating Temperature	-10°C~60°C
Relative Humidity	0%~95% (Non-condensing)
Storage Temperature	-15°C~60°C
Max. Operating Altitude	4000m (Derating above 2000m)

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

