

# **User manual**

**EA series pure sine wave inverter**

Please strictly comply with the warnings and operation guides explained in this manual. And keep the book properly.

Don't operate this machine before reading all the safety instructions and operation guides. Otherwise, it will damage the devices or even cause safety accidents !

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### (1) Product Introduction

- Double CPU intelligent control technology, excellent performance;
- Pure sine wave ac output, strong ability to the load;
- LED display model, clearly about the status;
- overload protection ,short-circuit protection, automatic protection and buzzer.

### (2)Installation instruction

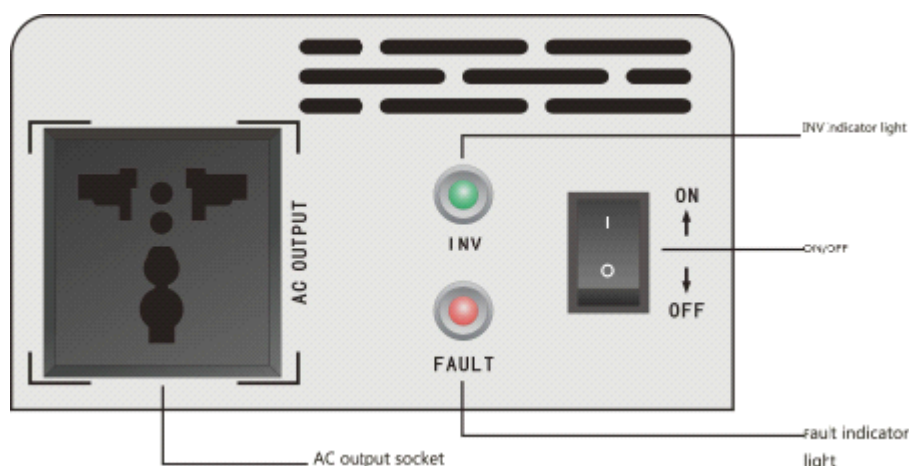
#### open the package and check

- 1.Open the package of the products ,please check products accessories, include: inverter, two battery cables(red and black)、 user manual.
- 2.Check the surface of the products, if there are damages in the transport ,please contact the dealer.

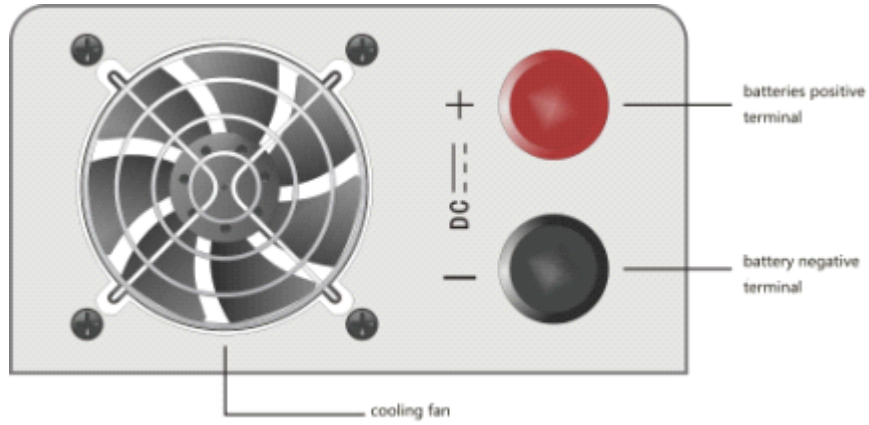
#### Installation note

- 1.The product installation should be operated by professionals , or droplet, please keep it dry and ensure safety.
- 2.Don't let inverter exposure in damp, inflammable and explosive Or a large accumulation of dust environment. Don't cover and block vents .In order to have a good cooling, please preset above 10cm air circulation clearance.
- 3.When connect with battery , please take off the metal items like rings , watched , and pay attention to the battery polarity/terminal voltage match with specification of the inverter; make sure the reliable connection between battery and inverter. Pay attention to the positive/negative terminal of the battery ,so as not to damage the inverter;

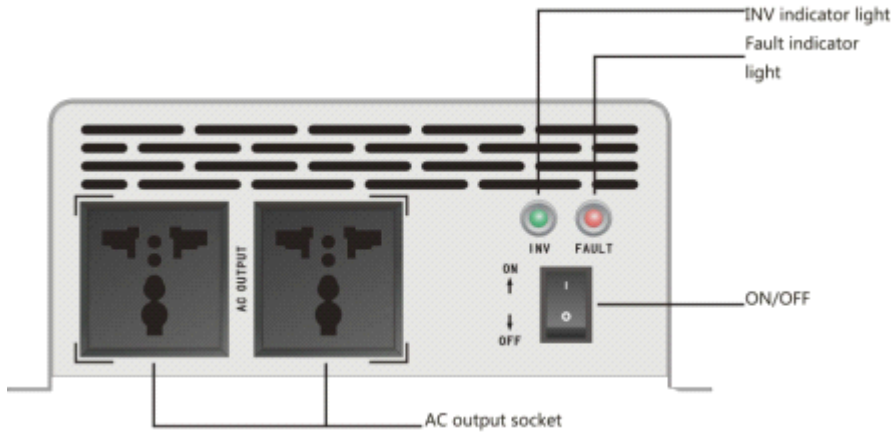
### (3) Panel display instruction



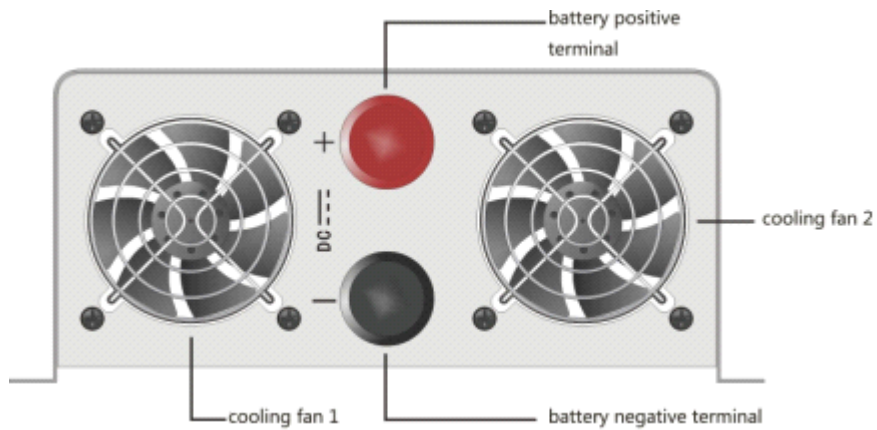
**300-500W**



**300W-500W**



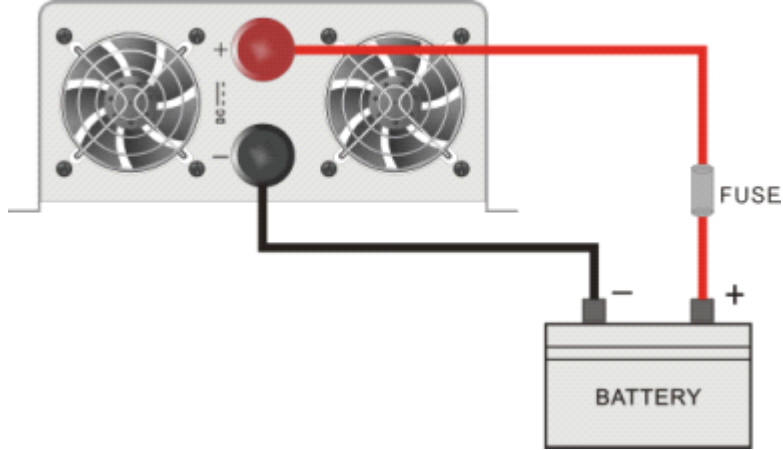
**800W-1500W**



**800W-1500W**

#### (4) Connection guide for inverter and batteries

Connect battery and inverter for reliable connection, the red terminal of the rear panels to connect the positive terminal of the batteries, the black terminal to connect the negative terminal of the batteries is strictly prohibited reversed, so as not to damage the inverter



#### (5) operation panel display/buzzer instruction

**“INV” green indicator:** light indicate the inverter output is normal.

**“FAULT” red indicator :** light indicate the inverter starts/standby/output overload/short circuit/fault ;

Buzzer alarm	Light indicator	Status indicator
Buzzer one time per seconds	“INV” lit	battery overload indicate
Buzzer one time per 3seconds	“FAULT” lit	Battery under-voltage indicate
Not alarm	“FAULT” lit	Battery high-voltage protection

#### (6) Operating instructions

Attention: before power on the inverter, pls correctly connect between AC output and load. when the inverter power on normally, open the load one by one.

##### 1. Power ON:

push the “ON/OFF” button in “ON” status, after inverter power on 1-3seconds, “INV” green indicator lit, AC output normally.

##### 2. Power OFF:

Push the “ON/OFF” button in “OFF” status, inverter shut down the AC output, indicator in out status.

## Inverter temperature control/DC voltage protection data

DC voltage data (VDC)					
Rated voltage	overvoltage		Under-voltage alarm	Under-voltage	
	Overvoltage protection	Overvoltage recovery		Under-voltage protection	Under-voltage recovery
12V	15.3	14.3	11	10	12.7
24V	30.6	28.6	22	20	25.4

Temperature control			
Fan working temperature		Inverter temperature protection/recovery	
work	stop	Shut down	work
65 °C	45 °C	90 °C	60 °C

### (7) Failure diagnosis and treatment

Warning : have internal high-pressure in inverter! Don't open to repair or maintenance, avoid electricity shock risk!

Faults	Possible reasons	Solution
"FAULT" indicator is on, alarm buzzer per 3seconds, no output.	Battery in under-voltage and shut down the output	When the battery voltage recovery ,it will be normally.
	Overload	Check the power of the load, shut down the critical load
	Load Short-circuit	Shut down the inverter, check the load and short-circuit fault
"FAULT" indicator light on , no output. Buzzer not alarm	Battery overvoltage protection ,shut down output	Check the battery voltage
	Inverter fault	Please contact customers service representative
Load time reduce	Battery charge is insufficient	Make sure the battery is Charged normally eight hours or more
	overload	Turn off non-critical load
	Battery aging ,has not sufficient power	Replace battery

When you contact with customer service representative, please provide the following

information : inverter model/purchasing date/complete faults description ( include relevant indicator、 buzzer alarm status、 battery、 load type、 power etc.)

## (8)Technical data

Model: EAP-800	
Power(W)	800
Rated DC voltage (VDC)	12
Output voltage	220VAC/110VAC±5%
Output frequency	50HZ/60Hz
Output wave form	Pure sine wave
Efficiency	>84% (80%resistive load)
No-load consumption	<8W
Protection	DC overvoltage/under-voltage protection, overload, short-circuit protection ,etc
Cooling type	Temperature control switch control
Operation environment temperature	0-40℃
Storage environment temperature	-15 - +50℃
Operation/storage condition	0-90% no condense
Size(mm)	360*196*78
Package Size(mm)	420*220*140
Net weight(kg)	3
Gross weight(kg)	3.2