Pure Sine Wave Inverter (DT-PSW-E2000)

Dear users:

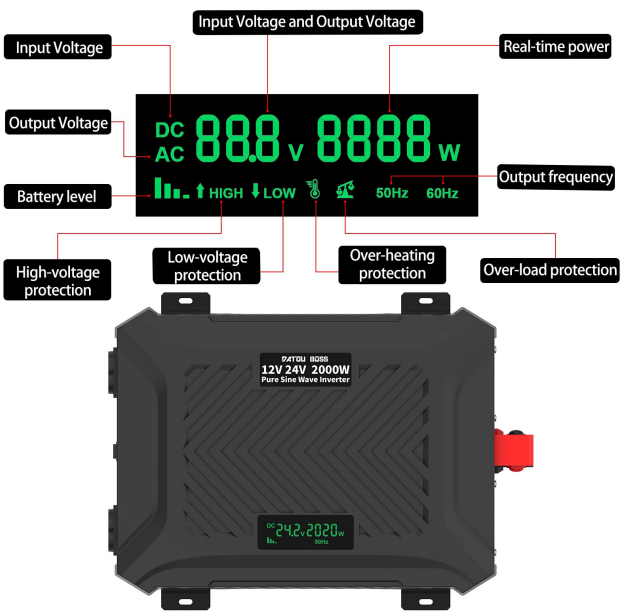
Hello, thank you for your support of DATOUBOSS inverter, this product model is TY-PSW-E2000, intelligent recognition of 12V and 24V battery, two working modes of rated power 2000W, peak power 4000W.This model adopts a centralized dual air ducts left and right uniform heat dissipation, reduce the temperature of the MOS tube, reduce the copper loss magnetic loss, reduce the heat, and improve efficiency. The working efficiency is ≥90%.

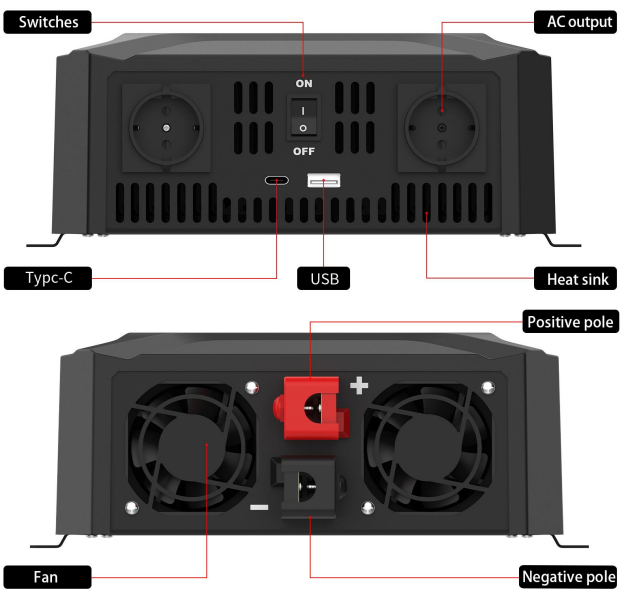
Attention:

1. The installation and commissioning of this equipment should be carried out by professional electrical maintenance personnel who are familiar with the structure of the device and the dangers of operation.
2. Ensure smooth vent and good heat dissipation.
3. High voltage is dangerous, please do not open the machine at will.
4. Use the original or suitable type of wire to avoid the wire melting due to the excessive current of the inverter.

Alarm Icons	protective function	Explanation
LOW	Low voltage protection	Below the minimum voltage value for normal operation of the inverter.
	Overload protection	The load exceeds the rated overpower.
HIGH	High voltage protection	Higher than the maximum voltage value for normal operation of the inverter.
	High temperature protection	The temperature is higher than the maximum temperature that the inverter can withstand.
-SC	Short circuit protection	The inverter stops output if the load appliance is short-circuited.

Panel Description:





Specification			
Model		**12V/24V4000W**	
Work mode		12V Mode	24V Mode
Output	Rated Power	2000W	2000W
	Peak Power	2000W	4000W
	Output Voltage	110V/220V/230V	
	Output Voltage Accuracy	±10V	
	Conversion efficiency	≥90%	
Input	Voltage Range	10-15.7V	20-31.5V
	No-load current	0.72A	0.81A
	Loss	<10W	<20W
	USB Charging	Type-C、USB5V2.1A	
Protection Functions	Low Voltage Alarm Indication	10.5V	21V
	Low voltage protection	10V	20V
	High voltage protection	16V	32V
	Overload protection	2200W	2200W
	Low Voltage Auto Recovery	13V	26V
	High temperature protection	80°	80°
	Short circuit protection	Yes	Yes
	Input reversal	Reconnect	Reconnect
Fault Alarm	Buzzer	Yes	Yes
LCD display	Input Voltage, Output Voltage, Power, Capacity, Frequency, Waveform, Alarm Identification		
Environment	Temperature	-5°-40°	-5°-40°
	Humidity	≤90%	≤90%

Common problems and solutions:

Interference from outside:
The inverter may be interfered by some strong electromagnetic waves in the use occasions, such as nearby motors, power inverters, strong magnetic fields, and so on.

The inverter does not respond:
1.Battery and inverter are not connected, reconnect it.
2.The positive and negative poles of the battery are reversed and the fuse is blown. Replace the fuse.
3. Overload, load current exceeds nominal current, turn off part of the load and restart.
4. The battery is dead and needs to be charged.
5. Battery voltage is too low or poor contact, recharge, check the battery terminals or clean the terminals with a dry cloth.

No output from inverter:
1. Battery voltage is too low, re-charge or replace the battery.
2. Load current is too high, turn off part of the load and restart the inverter.
3. Inverter over temperature protection. Let the inverter cool down for a while and put it in a ventilated place.
4. Inverter failed to start, restart.
5. Reverse terminal connection, reconnect correctly according to positive and negative poles.