Pure Sine Wave Inverter

Intelligent Identification
Dual voltage series

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TY-PSW-E2000/4000/6000



Dear user::

Hello, thank you for your support of our company inverter. This series is the latest product series developed by our company. It can intelligently identify 12V and 24V batteries and automatically match the corresponding working status. This model adopts centralized dual air ducts to evenly dissipate heat on the left and right, reduce the temperature of MOS tubes, and improve conversion efficiency. It has been innovated from the previous single air duct and multiple groups of transformers in series to a single transformer vertical multi-layer copper ring superposition winding method, which reduces copper loss and magnetic loss, reduces heat, and improves efficiency. Working efficiency ≥ 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 and operating hazards of this device.
2. Ensure that the ventilation openings are unobstructed and the heat dissipation is good.
3. High voltage is dangerous, please do not open this machine at will.
4. Use original or suitable wires to avoid wire fusing due to excessive inverter current.

Common Problems and Solutions:

Interference from the outside:
The inverter may be interfered by some strong electromagnetic waves in the use environment, such as nearby motors, power converters, strong magnetic fields, etc.

The inverter does not respond:
▲ The battery and inverter are not connected properly, reconnect them.
▲ The battery is dead and needs to be charged.
▲ The battery voltage is too low or the contact is poor, recharge, check the battery terminals or clean the terminals with a dry cloth.

The inverter has no output:
▲ The battery voltage is too low, recharge or replace the battery.
▲ The load current is too high, turn off part of the load and restart the inverter.
▲ Inverter overtemperature protection. Let the inverter cool down for a while and place it in a ventilated place.
▲ The inverter fails to start, restart.
▲ The terminals are connected in reverse, reconnect them correctly according to the positive and negative poles.

Insufficient power:
▲ The wiring is not connected properly, resulting in poor contact, the current transmission cannot reach the maximum state, and sufficient current cannot reach the input end of the inverter.
▲ The battery is low, dead or insufficient, and cannot provide the current required for the power
▲ The battery specifications do not match. For example, the maximum discharge current of a 12V100Ah lithium iron phosphate battery is 120A, and its maximum discharge power is 12*120=1440, which cannot make the 2000W inverter reach the highest power working state.
▲ The inductive load device will generate back electromotive force at the moment of starting work. The instantaneous power of the startup work far exceeds its rated power. The instantaneous power exceeds the peak power of the inverter. The back electromotive force is too large, causing the inverter to be unable to start the load, and a higher power inverter needs to be replaced.

Protection icons and explanations:

Alert Icon	Protection function	Explain
LOW	Low voltage protection	Lower than 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 load electrical appliance is short-circuited and the inverter stops outputting.

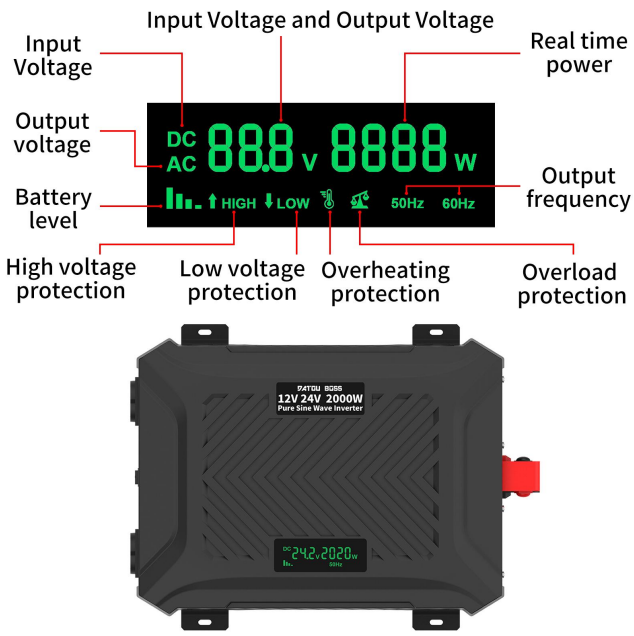
TY-PSW-6000 Output mode adjustment instructions:

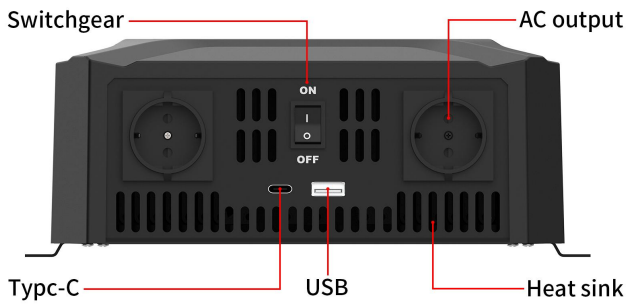
1	2	3	Output Mode
OFF	OFF	OFF	220V 50Hz
OFF	ON	OFF	230V 50Hz
ON	OFF	OFF	240V 50Hz
OFF	OFF	ON	220V 60Hz
OFF	ON	ON	230V 60Hz
ON	OFF	ON	240V 60Hz

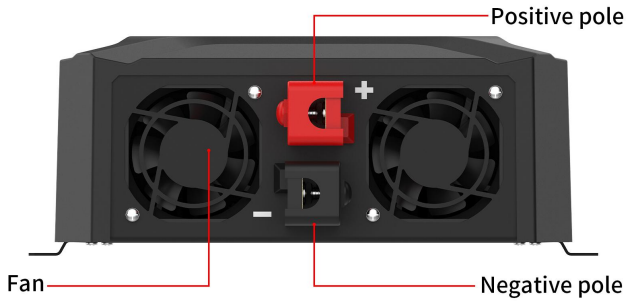
Specifications:

Model		TY-PSW-E2000		TY-PSW-4000		TY-PSW-6000	
							
		12V	24V	12V	24V	12V	24V
Output	Rated power	2000W	2000W	1200W	2300W	1500W	3000W
	Peak power	4000W	4000W	2000W	4000W	3000W	6000W
	Output voltage	110V/220V/230V/240V					
	Output voltage accuracy	±10V					
	Conversion efficiency	≥90%					
Enter	Voltage range	10-15.7V	20-31.5V	10-15.7V	20-31.5V	10-15.8V	20-31.5V
	loss	<10W	<20W	<5W	<10W	<10W	<20W
	USB	Type-C、USB5V2.1A					
Protection function	Low pressure alarm	10.5V	21V	10.5V	21V	10.5V	21V
	Low voltage protection	10V	20V	10V	20V	10V	20V
	High voltage protection	16V	32V	15.7V	31.5V	15.8V	31.5V
	Overload protection	≥2200W	≥2200W	≥1200W	≥2300W	≥1600W	≥3200W
	Low voltage automatic recovery	13V	26V	13.5V	27V	12.8V	25.3V
	High temperature protection	80℃	80℃	80℃	80℃	80℃	80℃
	Short circuit protection	Yes	Yes	Yes	Yes	Yes	Yes
LCD Display	Input voltage, output voltage, power, quantity, frequency, waveform, alarm mark						
Work Environment	Temperature	-5℃-40℃	-5℃-40℃	-5℃-40℃	-5℃-40℃	-5℃-40℃	-5℃-40℃
	Humidity	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%

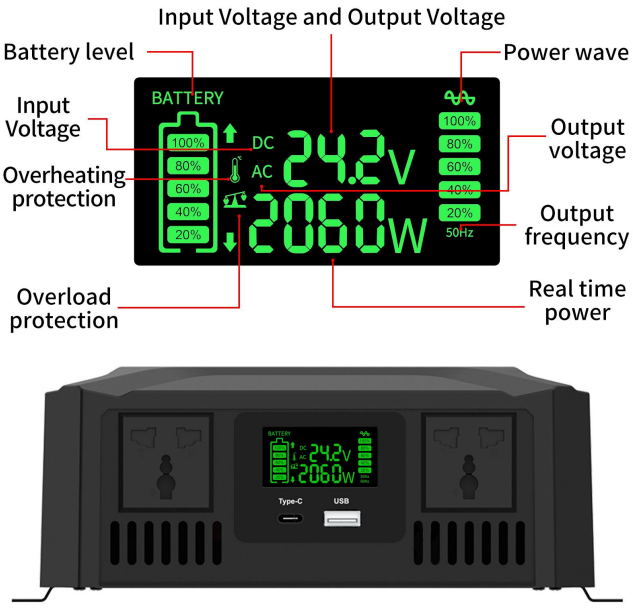
TY-PSW-E2000Panel Description:

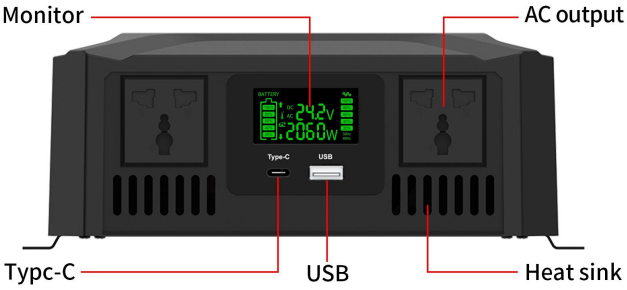


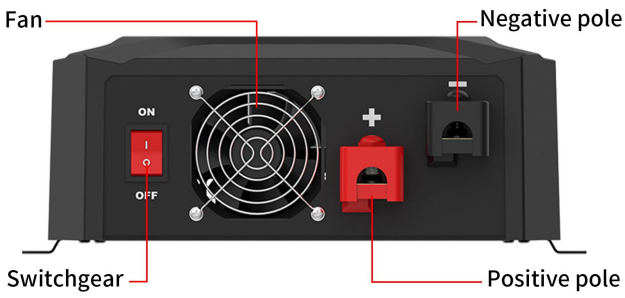




TY-PSW-4000 Panel Description:







TY-PSW-6000 Panel Description: