

# Pure Sine Wave Inverter

(TY-PSW-6000)



## Dear users:

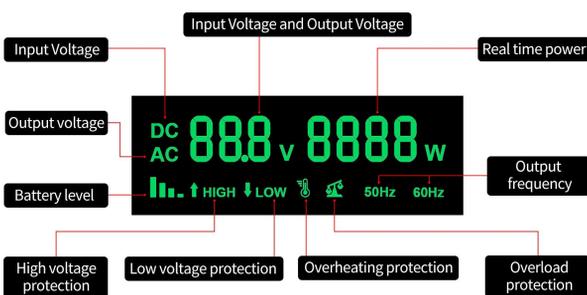
Hello, thank you for your support of DATOUBOSS inverter, this product model is TY-PSW-6000, intelligent recognition of 12V and 24V battery, When operating in 12V mode, the rated power is 1500W and the peak power is 3000W. When operating in 24V mode, the rated power is 3000W and the peak power is 6000W. The working efficiency is  $\geq 90\%$ .

## 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.
-∞	Short circuit protection	The inverter stops output if the load appliance is short-circuited.

## Panel Description:



## Specification

Work mode		12V Mode	24V Mode
Output	Rated Power	1500W	3000W
	Peak Power	3000W	6000W
	Output Voltage	220V/230V/240V	
	Output Voltage Accuracy	±10V	
	Conversion efficiency	≥90%	
Input	Voltage Range	10-15.8V	20-31.5V
	No-load current	0.72A	0.6A
	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	15.8V	31.5V
	Overload protection	≥1600W	≥3200W
	Low Voltage Auto Recovery	12.8V	25.3V
	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%

### 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

### 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.