

Pure Sine Wave Inverter (TY-SL-6000)



Dear user:

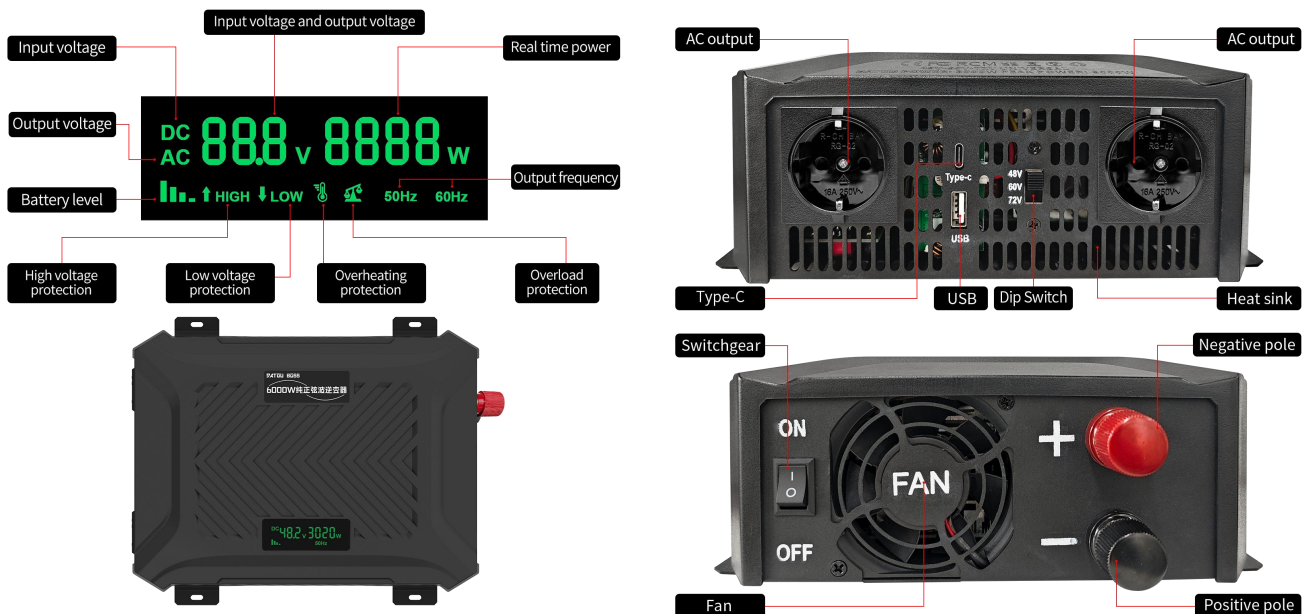
Hello! Thank you for your support of DATOUBOSS inverters. The model number of this product is TY - SL - 6000. It is suitable for 48V, 60V and 72V batteries. The rated output power of the three working modes is 3000W, and the peak power is 6000W. This model adopts a centralized dual-air duct design for uniform heat dissipation on the left and right sides, reducing the temperature of the MOSFET and improving the conversion efficiency. It has been innovated from the previous single-air duct with multiple transformers in series to a single transformer with vertical multi-layer copper ring superimposed winding mode, reducing copper loss and magnetic loss, reducing heat and improving efficiency. The working efficiency is $\geq 90\%$.

Attention:



- 1.The installation and debugging of this equipment must be carried out by professional electrical maintenance personnel who are familiar with the structure of this device and the operational hazards.
- 2.Ensure that the air vents are unobstructed and provide good heat dissipation.
- 3.Danger! High Voltage. Do not open this machine at will.
- 4.Use original or appropriately sized wires to avoid wire melting caused by excessive inverter current.

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.

面板说明:



Specifications				
Model		TY-SL-6000		
Work mode		48V mode	60V mode	72V mode
Output	Rated power	3000W	3000W	3000W
	Peak power	6000W	6000W	6000W
	Output Voltage	220V/230V/240V (Adjustable)		
	deviation	±5V		
	Conversion efficiency	≥90%		
Input	Voltage range	42-64V	52.5-80V	63-96V
	No-load current	0.24A	0.24A	0.24A
	attrition	<15W	<20W	<20W
	USB	USB-C、USB5V2.1A		
Protection function	Low voltage alarm prompt	42.5V	53V	63.5V
	Low voltage protection	42V	52.5V	63V
	High voltage protection	64V	80V	96V
	Overload protection	3200W	3200W	3200W
	Low voltage recovery	51V	64.5V	77.5V
	High temperature protection	80°	80°	80°
	Short-circuit protection	Yes	Yes	Yes
	Input Reversed	Blow the fuse	Blow the fuse	Blow the fuse
Fault Alarm	Buzzer	Yes	Yes	Yes
LCD	Input voltage, Output voltage, Power, Electric quantity, Frequency, Waveform, Alarm indication			
Working environment	temp	-5°-40°	-5°-40°	-5°-40°
	Humidity	≤90%	≤90%	≤90%

Instructions for Knob Adjustment					
	Output mode adjustment	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
	Input mode adjustment	This machine is suitable for battery packs of 48V, 60V, and 72V. Before using the inverter, please check the voltage of the battery pack first to ensure that the inverter is adjusted to the appropriate gear.			

Solutions to the Problem that the Common Inverter Has No Response:

1. Battery and inverter are not connected, reconnect them.
2. The positive and negative terminals of the battery are reversed and the fuse is blown. Replace the fuse. Output voltage is low.
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 battery terminals or clean terminals with dry cloth.