Product detail parameters

MODEL		BEP150S	BEP300S	BEP500S	BEP600S	BEP800S			
Output	Rated Power	150W	300W	500W	600W	800W			
	Peak Power	300W	600W	1000W	1200W	1600W			
	Frequency	50Hz / 60Hz(Optional)							
	WaveForm	Pure Sine Wave							
Input	Battery Voltage	12V / 24V (Optional)	12V	12V	12V/24V/4	8V(Optional)			
	Voltage Range	10-15V(12V) / 20-30V(24V) / 40-60V(48V)							
	No load Current	0.6A(12V) 0.3A(24V)	0.9A	1.0A	0.6A(12V) 0.3A(24V)	0.8A(12V) 0.6A(24V) 0.3A(48V)			
	Efficiency	≥90%							
Battery input protection	Low Voltage Alarm	10.5V±0.5V(12V) / 20V±1V(24V) / 42V±2V(48V)							
	Battery low voltage protection	9.5V±0.5V(12V) / 19V±1V(24V) / 40V±2V(48V)							
	Battery high voltage protection	15.5V±0.5V(12V) / 30V±1V(24V) / 60V±2V(48V)							
	Battery reverse polarity protection	NO	YES	YES	YES	NO			
Other protection		High temperature protection、Shortcircuit Protection、Overload Protection							
USB		YES							
FAN		Smart fan,Automatic startup of high temperature and load							
Operating environment		Temperature 0°C~40°C@100%load, Humidity 20%~90%RH,No refrigeration							
Size(mm)		160*95*55	211*118*56	236*118*56	262*150*76	309*180*172			
Weight(g)		530	820	910	1800	3050			
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MODEL		BEP1000S	BEP1500S	BEP2000S	BEP3000S	BEP5000S			
Output	Rated Power	1000W	1500W	2000W	3000W	5000W			
	Peak Power	2000W	3000W	4000W	6000W	10000W			
	Frequency	50Hz / 60Hz(Optional)							
	WaveForm	Pure Sine Wave							
Input	Battery Voltage	12	12V / 24V (Optional)						
	Voltage Range	10-1	48V)						
	No load Current	0.8A(12V) 0.6A(24V) 0.3A(48V)	1.8A(12V) 1.0A(24V) 0.5A(48V)	3.0A(12V) 1.5A(24V) 0.8A(48V)	3.8A(12V) 2.0A(24V) 1.2A(48V)	2.5A(24V) 1.4A(48V)			
	Efficiency	≥90%							
input	Low Voltage Alarm	11(12V) / 21V(24V) / 42V(48V)							
	Battery low voltage protection	10V±0.5V(12V) / 20V±0.5V(24V) / 40V±0.5V(48V)							
	Battery high voltage protection	$15V \pm 0.5V(12V) / 30V \pm 0.5V(24V) / 60V \pm 0.5V(48V)$							
	Battery reverse polarity protection	NO							
Other protection		High temperature protection, Shortcircuit Protection, Overload Protection							
USB		YES							
FAN		Smart fan, Automatic startup of high temperature and load							
Operating environment		Temperature 0°C~40°C@100%load, Humidity 20%~90%RH,No refrigeration							
Size(mm)		367*150*76	452*150*142	454*180*142	529*180*142	585*180*167			
Weight(g)		2440	4000	4900	6020	8000			
Remarks: Please select the corresponding parameters according to the									

This series of Pure sine wave inverter is suitable for:

Various kinds of household appliances, lighting electricity, IT electronics products, office equipment, Power tools, on-board appliances, outdoor emergency power supply, etc. The power of the electricial equipment exceeds the output power of the inverter and some start-up current of large power equipment may not be driven.



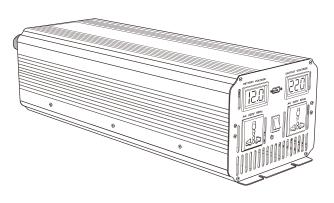
Product characteristics

 Our company's pure sine wave series inverter has perfect protection circuit, provide high temperature protection, overpressure protection, low voltage protection, short circuit protection, overload protection and other functions to prevent damage to your inverter;
Advanced circuit design, high conversion efficiency, rich interface, stable output voltage;
The inverter is made of metal shell, which has reasonable design and good heat dissipation performance;

- The inverter has advanced anti-jamming technology, fully functional protection circuit, soft start circuit and convenient operation mode.
- The soft start circuit increases the output voltage step by step at startup in order to eliminate cold start failure, and also has the instantaneous drop of the output voltage and the quick recovery function, which reduces load on startup instantly overload.

Pure Sine Wave Inverter Manual

BEP150S/BEP300S/BEP500S BEP600S/BEP800S/BEP1000S BEP1500S/BEP2000S BEP3000S/BEP5000S

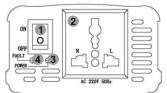


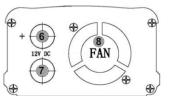
To ensure reliable service, the inverter must be used properly. Please read the instruction manual before use. Particular attention should be paid to the warning and attention of this brochure. Caution for certain conditions and practices that may cause damage to the inverter. Make clear warning statements about certain conditions and practices that may cause bodily harm. Please read all instructions before using the inverter.

Please read this instruction manual carefully so that it can be used correctly. Remember to read the "safety precautions" section before you use it to make sure it's safe to use. After reading the instructions, please complete the warranty card for safekeeping, to keep on for reference.

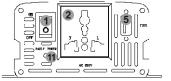
Pure sine wave inverter front and rear panel diagram

BEP150S Panel diagram

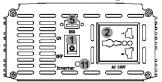




BEP300S/500S Panel diagram



BEP1000S Panel diagram





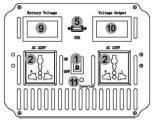
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TIAN DC

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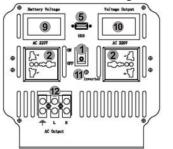
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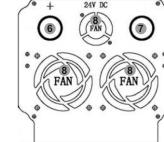
BEP800S/1500S/2000S/3000S Panel diagram



12V DC 6

BEP5000S Panel diagram





- 7、Negative (black) 8、Cooling fan
- 1、Power switch 2、AC output socket
- 3, Power indicator 4, Status indicator
- 5. USB Interface
- 6, Positive (red)
 - 12, AC output interface

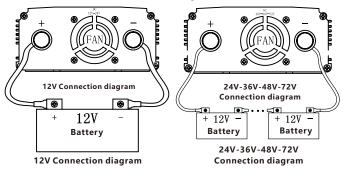
The product panel is for reference only. Please refer to the actual product.

9, Voltage input monitor

10、Voltage output monitor

11, Double color status indicator

Install the connection step:



1.First turn off the power switch of the inverter.

- 2.Use a black DC cable to connect the negative terminal of the battery to the black terminal of the inverter.
- 3.Connect the positive terminal of the battery to the red terminal of the inverter with a red DC cable.
- 4.Plug the power supply plug of the power equipment into the output socket of the inverter.
- 5.Open the inverter power switch can be used.

Disassembly steps:

1.First turn off the power switch of the inverter; 2.Pull out the power plug of the load. 3.Remove the red DC cable; 4.Remove the black DC cable

For example, when the power of an AC load is 100W, the current supplied by the power supply must be 100/10=10A. In the need of a larger current, you can use several batteries in parallel to use. The most important thing is to ensure that there is enough cross-sectional area of the connecting cable. This manual does not list all battery pack types. The battery's charging and battery configuration belong to another professional category.

Installation method

1. Wiring diagram is only for basic reference, please contact professional technical personnel for actual installation.

One or more batteries can be used in inverters. One or more batteries can be used in Warming inverters. It's better to use 150AH or batteries with bigger capacity.

2. Since it may be necessary to connect the battery for these operations, make sure there is no flammable gas around before connecting.

Connect the inverter and the battery with the cables supplied with the inverter (excluding the high-power mode cable). The red cable is connected to the red terminal of the inverter input terminal and the positive terminal of the battery. The black cable is connected to the inverter Input terminal black and battery negative. Please ensure that all cables are stable and reliable. Improper connection may result in overheating of the cable, damage to terminals and lugs. At the same time will cut down the battery power supply time. Turn the inverter mode to ON, if your battery is fully charged, the light of inverter will display green. The inverter is protected if the light displays red, so try to solve it before using. (Check whether the battery voltage is too high or too low, the inverter output is overload or short circuit) .

The power source for the 12V inverter can be used with a 12V battery or several 12V batteries in parallel to increase the battery's power supply time.

3. Inverter must be connected to the same nominal voltage of the battery. 12V inverter connected to the 12V battery, 24V inverter connected to the 24V battery

4.Before you plug in all your power devices, make sure all devices are shut down.

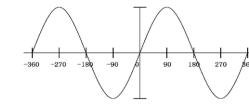
Turn on the inverter mode switch, the POWER on the edge of the LED emits green light, and then you can open your device one by one, if your device is not overloaded, now can work properly. If LED glows red, it's overloaded .You need to reduce load restart to work.

. In the installation of connecting cables should use a suitable cable, such as 220V output cable is too long or the wire cross-sectional area is too small, there will be a lot of power loss in the cable, the load side of the performance of small power, low voltage. •.Batteries and inverter connection cable is not standardized, the cable is too long, the cross-sectional area is too small, bad connection parts, will cause a lot of power loss. Performance for the lack of output power, the battery voltage is too low, short working hours, and even turn on the alarm does not work. At the same time the cable should be waterproof, dielectric strength must meet the requirements of the use of the environment.

Performance introduction

An inverter is a power supply that converts direct current (batteries, solar cells, wind turbines, etc.) into alternating current. Because of the high frequency inverter used in power conversion technology, ferrite transformer to replace the old bulky silicon steel transformer. This is why the inverter of our company is lighter weight and less bulky than other inverters that have similar rated power. While inverting mode, inverter will output pure sine wave which is really same as public power supply. If the power of the appliances is not exceed the power of the inverter it can drive those basically.

Pure sine wave



Using environment

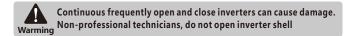
In order to achieve the best use effect, please put the inverter in the surface of the smooth place, such as the ground, the floor of the car, or other solid surface. Let the inverter power line can be fixed easily. The working place should meet the following standards:

- 1.Do not allow the inverter to contact with water or other liquid to keep the inverter away from moisture or water
- 2.In a cool environment, the temperature is 0 degrees (without condensation) to 40 degrees. Don't put the inverter next to the heating vents or other heating devices. Keep the inverter out of the sun as much as possible.
- 3.Keeping the ventilation and the absence of obstructions around it ensures that air is free to circulate. When the inverter is working, do not put something on the inverter. The inverter fan is used to help dissipate the heat.
- 4.Be careful not to use inverters near flammable materials or places where flammable gases can be gathered
- 5. The battery not only provides a dc voltage of 11V to 15V, but also provides sufficient current to run the load. The power supply should be a good battery full of electricity. To estimate roughly the current required for a load, it can be estimated by dividing the power of the load by 10.

Rated current and actual use of equipment

The nominal current or power of most power tools, household appliances and video and audio equipment is much smaller than the nominal power range of the inverter, but overload protection occurs when they are started. Inverter is the most easy to drive resistive load or switching power supply load. Because the resistive load is a linear load, it can work full load. Such as electric stove, rice cooker, LCD TV and other equipment.

Some audio-visual equipment and electric tools to a greater level than resistive load power can work normally, such as asynchronous motor, CRT TV, compressor, water pump etc. 2 to 6 times the working current is required to start. The ability to run specific loads is subject to test.



Common problem

Electric tools and microwave ovens cannot start

Carefully read the information on each power tool and accurately determine the input power of the tool. Whether the output power is enough to run the tools and microwave ovens, remember that power tools may need 2 to 6 times power requirements.

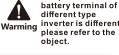
Television interference

The inverter has little interference with the television signal. However, in some cases, some disturbances are still visible, especially when the television signal is weak. Please try the following methods:

- 1. Try to keep the inverter away from the TV antenna or lengthen the TV antenna cable; 2. Adjust the direction of the inverter.
- 3.Ensure that the antenna provides strong signal strength to the TV set, and use high quality antenna cable with good shielding effect.
- 4. When you watch TV, do not run high power electrical equipment or tools.
- 5. There is no way to completely disappear some of the old TV interference.



Normally the fuse will not burn out unless serious circuit failure occurs. When the inverter fails, please do not try to repair it yourself. Please contact a professional technician to deal with the machine, there will be Warming high voltage electric shock hazard.



The position of the

inverter is different, Warming please refer to the