Product detail parameters

	Model	BEF300H	BEF500H
Output	Rated power	300W	500W
	Peak power	600W	1000W
	Ac voltage	230V	
	Frequency	50Hz	
	Waveform	Modified sine wave	Modified sine wave
Input	Battery voltage	12V	12V
	Voltage range	10V-15.5V	10V-15.5V
	Dc current	30A	50A
	No-load loss	0.2A	0.25A
	Shutdown mode static current	20mA	
	Maximum efficiency	89%	
	Battery type	Lead-acid batteries / lithium battery	
Battery input protection	Fuse	40A*1	40A*2
	Battery low voltage protection	10V	10V
	Battery high voltage protection	15.5V	15.5V
	Reverse battery protection	Yes	Yes
Output protection	Over temperature	LCD display shows high temperature protection, turn off the inverter output, automatically restore the inverter output when the temperature decreases	
	Output short circuit	LCD display shows short circuit protection, remove the short circuit and restart the inverter to restore output	
	Overload	350W	550W
		LCD display shows overload protection, restart the inverter to restore output	
5V	Output voltage	5V	
	Current	2.1A	
Quick charge	Output voltage	5V/9V/12V	
	Output current	2.1A	
Environment	Working temperature	0-40°C	
	Working humidity	20-90%RH	
	Storage temperature, humidity	-30°C-+70°C,10-95%RH	
Other	Net weight	800g	910g
	Size(L*W*H)	190*101*82mm	230*101*82mm





To avoid harm to you and others, here are some of the following security considerations. Be sure to follow the meanings of the various flags. See the following.



inflow.

Please insert completely



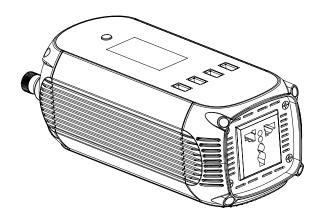
Please insert the load device plug into the inverter socket completely. If the plug is fully inserted at the end, it may lead to electric shock and overheating, and even cause a fire accident. Do not use damaged plugs, power outlets, electrical wires.

Product characteristics

•Our company's modified 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 guick recovery function, which reduces load on startup instantly overload.

BELTTT **BEF300H / BEF500H** Inverter Manual

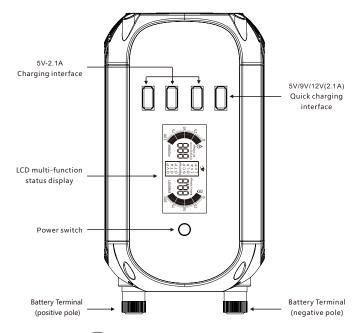


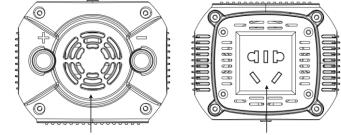
To ensure reliable service, the inverter must be used properly. Please read the instruction manual before use. Particular attention should be paid to the warning and attention of this brochure. Caution for certain conditions and practices that may cause damage to the inverter. Make clear warning statements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

The inverter can be suitable to various kinds of household appliances, lighting electricity, IT electronics products, office equipment, on-board appliances, outdoor emergency power supply, etc. The power of the inductive load and the electrical equipment exceeds the output power of the inverter and some start-up current of large power equipment may not be driven.

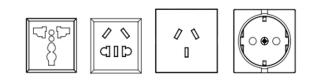
BEF300H / BEF500H Appearance diagram





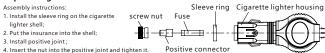
Intelligent Heat Dissipation Far

The appearance of the product is for reference only. Please prevail in kind



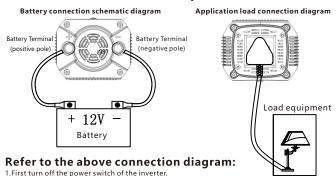
Note: AC socket may be different in different countries and regions. Please prevail in kind

Replace signal of inverter insurance



If the inverter is plugged into the cigarette lighter socket and there is no reaction, it may be that the fuse in the cigarette butt is blown. Please check the cigarette butt insurance. Replacement method as above

Install the connection step:



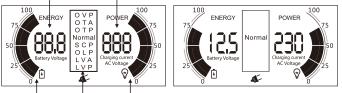
- 2.Use a black DC cable to connect the negative terminal of the battery to the black terminal of the inverter.
- 3.Connect the positive terminal of the battery to the red terminal of the inverter with a red DC cable
- 4.Plug the power supply plug of the power equipment into the output socket of the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

Disassembly steps:

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

Inverter display function introduction

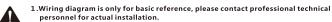
Output Voltage Input Voltage



Battery level Status display Load power

1. When the alarm warning is detected, the buzzer will alarm for 5 times and then turn off for 10 seconds; then the buzzer will alarm for 5 times and turn off for 10 seconds; after the cycle, the buzzer will not alarm for 1 minute, and the alarm information will still be displayed on the LCD screen. 2. When the protection warning is detected, the buzzer will alarm for 30 seconds, and Warning the protection information will appear on the display screen. After 30 seconds, the machine will

Installation method



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) .

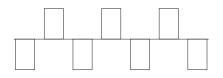
The power source for the 12V inverter can be used with a 12V battery or several 12V batteries in parallel to increase the battery's power supply time.

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 power switch of the inverter, the LED on the POWER edge emits green light. Then you can turn on your device one by one. Before using the electric equipment, please check whether the power of the appliance is within the power range of the inverter. If the power of the inverter is exceeded, the inverter will have overload protection. The red indicator lights are flashing, so you need to reduce the load and troubleshoot. If the indicator is red, it is overloaded, so you need to reduce the load and restart before working.

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. When the inverter works in the inverter mode, the output waveform is modified sine wave. It is a practical wave which waveform characteristic is similar to pure sine wave. This waveform is most suitable for linear load and switching power supply of electronic equipment, such as light bulbs, rice
- cookers, energy saving lamps, etc.. It can also be applied to inductive loads, such as transformers, motors etc.
- The inverter output is the effective value voltage of the modified sine wave is 110V, which is the same as the standard household power supply, and its output calibration is calibrated under the RMS voltage. If use the voltmeter
- with average value to measure t he phenomenon of low output
- voltage may appear. In order to measure the accuracy, please use the voltmeter that can measure the RMS value.



Modified sine wave

Using environment

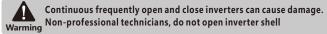
- In order to achieve the best use effect, please put the inverter in the surface of the smooth place, such as the ground, the floor of the car, or other solid surface. Let the inverter power line can be fixed easily. The working place should meet the following standards:
- 1.Do not allow the inverter 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 must provide the load with sufficient current and voltage. 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 are the easiest to drive resistive loads and the hardest to start capacitive loads 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. Whether a particular load can be run depends on the electrical equipment used by the user.



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.

natically shut dowr



Multifunctional Power Socket