#### **Product detail parameters**

M	ODEL	BET800S	BET1000S	BET1500S	BET2000S	BET3000S	BET5000S
DC Voltage			1	2V/24V(Optiona	al)		24V
	Battery	10V-15V(12V) / 20V-30V(24V) 20V-3					
DC Input	Voltage DC	74A(12V)	74A(12V)	138A(12V)	185A(12V)	276A (12V)	462A(12V)
	Current	37A(24V) ≤1.0A(12V)	37A(24V) ≤1.0A(12V)	69A(24V) ≤1.8A(12V)	92.5A(24V) ≤3A(12V)	138A(24V) ≤3.8A(12V)	231A(24V)
	No-load loss	≤0.5A(24V)	≤0.5A(24V)	≤1.0A(24V)	≤1.5A(24V)	≤2A(24V)	≤2 <u>.</u> 5A
	Standby current	≤10mA					
	Efficiency	≥90%					
	Battery Type	Lead-acid battery					
AC Output	Rated Power	800W	1000W	1500W	2000W	3000W	5000W
	Peak	1600W	2000W	3000W	4000W	6000W	10000W
	Power AC						
	Voltage	220V					
	Frequency	50HZ±0.5HZ					
	Waveform	Pure Sine Wave (THD<3%)					
Battery Input protection	Insurance piece	40A*2(12V) 40A*1(24V)	40A*2(12V) 40A*1(24V)	40A*4(12V) 40A*2(24V)	40A*6(12V) 20A*6(24V)	40A*8(12V) 20A*8(24V)	30A*12
	Low Voltage			.5V(12V) / 20V			20V±1V
	Alarm Low Voltage	9.5V±0.5V(12V) / 19V±1V(24V) 19V±1V					
	Protection High Voltage						
	Protection Reverse	15.5V±0.5V(12V) / 30V±1V(24V) 30V±1V					
	Polarity Protection	Through an internal insurance film					
AC Output protection	High Temperature	75℃±5℃					
	Protection	The red light is bright with an alarm and no output					
	Short Circuit	The red light is bright , cancel the short circuit automatically back to normal					
	Protection Overload Protection	≥ 800W	≥ 1000W	≥ 1500W	≥ 2000W	≥ 3000W	≥ 5000W
			1		ht is bright		1
	Rated voltage	220V					
Charging input	Rated	50/60HZ+0.5HZ					
	frequency Full of						
	efficiency	≥80%					
Charging output mode	Constant current	15A(12V) / 8A(24V) The charging indicator is orange					
	Constant pressure	14.4V(12V) / 28.8V(24V) The charging indicator is orange					
	voltage Float charging						
	voltage	13.5V(12V) / 27V(24V) The charging indicator is green					
Charging input protection	Insurance tube	5A*1	5A*1	5A*1	5A*1	5A*1	5A*1
	Overload Protection	5A Overcurrent protector	5A Overcurrent protector	8A Overcurrent protector	8A Overcurrent protector	15A Overcurrent protector	30A Overcurren protector
	High voltage protection	Varistor					
	Insurance	35A*1(12V) / 15A*1(24V)					
Charging output protection	piece Short circuit	YES					
	protection Reverse	YES					
	connect protection	Through an internal insurance film					
USB	output voltage	5V					
	Output current	500mA					
Conversions time		The municipal electricity is converted to contravariant≤20mS					
		The inverse transform into a municipal electricity≤20mS					
		Smart fan, Automatic startup of high temperature and load					
		3.07			1		8
Net weight (Kg)		3,37	3.37	3,37	5.28	6.48	-
Gross weight (Kg)		4.26	4.26	4.26	6.57	8.1	9.7
Product size (mm)		309*180*142	309*180*142	309*180*142	454*180*142	529*180*142	685*180*16
Product siz	e (mm)						

#### This series of Pure sine wave UPS 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 electrical equipment exceeds the output power of the inverter and some start-up current of large power equipment may not be driven.



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.

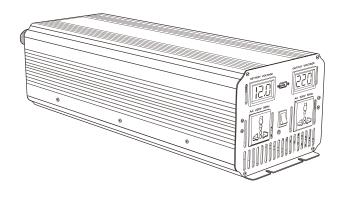
•The three - phase charging method (constant current, constant voltage, floating charge) is used to provide the mains supply input overload and over voltage and lightning protection function.

# BELTTT®

Power Inverter Solar Power Generation System

BET800S / BET1000S BET1500S / BET2000S BET3000S / BET5000S

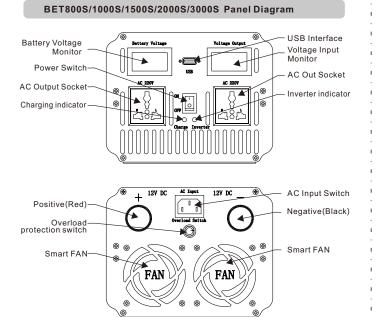
# Pure Sine Wave UPS Inverter Manual



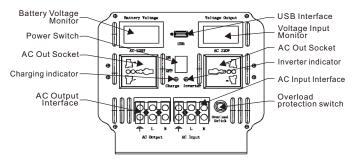
To ensure reliable service, the inverter must be used properly. Please read the instruction manual before use. Particular attention should be paid to the warning and attention of this brochure. Caution for certain conditions and practices that may cause damage to the inverter. Make clear warning statements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

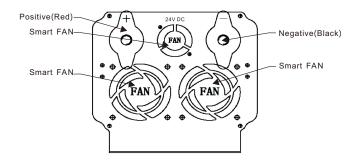
Please read this instruction manual carefully so that it can be used correctly. Remember to read the "safety precautions" section before you use it to make sure it's safe to use. After reading the instructions, please complete the warranty card for safekeeping, to keep on for reference.

## Pure sine wave UPS inverter front and rear panel diagram



BET5000S Panel Diagram





# Install the connection step:

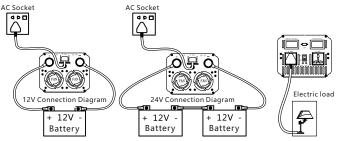
1.First turn off the power switch of the inverter.

- 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.Connect the mains supply to the inverter AC input socket or AC input socket 5.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



The position of the battery and AC input interface of different type inverter is different. Please refer to the object in kind.

#### **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 nersonnel for actual installation

One or more batteries can be used in inverters. One or more batteries can be used in 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

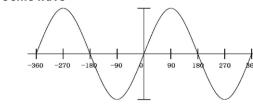
4.Before you plug in all your power devices, make sure all devices are shut down. Turn on the inverter mode switch, the POWER on the edge of the LED emits green light, and then you can open your device one by one, if your device is not overloaded, now can work properly. If LED glows red, it's overloaded .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.

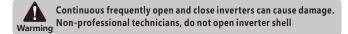
3.Keeping the ventilation and the absence of obstructions around it ensures that air is free to

circulate. When the inverter is working, do not put something on the inverter. The inverter fan is used to help dissipate the heat.

# Rated ourrenteand actual duse of equipmentes can be

The horner has a power of most power tools, household appliances and video and audio Edus hatters not a share of the set and the set and the set of the o centheread a construction of the second provided the second prov suboryurantureduised for a load i gan bearsting tod budisiding the power subprace by its to rerice 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

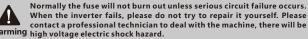
#### Electric tools and microwave ovens cannot start

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.



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.

Warming