# 400W Power Inverter

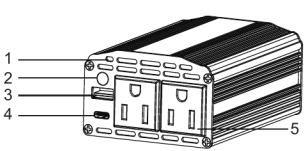
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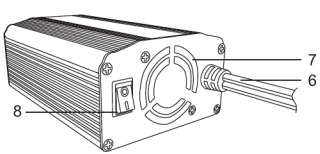
Thank you for purchasing BESTEK vehicle series products!
Please read the instructions carefully before using and operate strictly according to the instructions.

## Introduction

Whether you are at home, on the road, or any remote location, you can trust BESTEK portable and backup power solutions, for the traveler on-the-go to keep your important devices powered up. Put BESTEK power in the palm of your hand to keep you safe, productive and entertained, anytime and anywhere. This power inverter is ideal for those who frequently on the road. The 400W DC-AC Power Inverter with USB-A and USB-C charging ports is designed for all major brand notebook computers, digital portables like video camcorder, digital camera, iPad, iPod, cell phone, PSP, DVD player & etc.

## Parts Diagram




1. Air Inlet
2. LED Power Indicator
3. USB-C (PD 30W)
3. USB-A (QC 18W)
5. AC Output Socket×2
6. DC Input Power cord
7. Cooling Fan
8. AC Power Switch

## Features

- The product's input is vehicular DC cigarette lighter joint and the output is two American Standard AC socket.
- This product makes the DC12V step-up through the transformer, and then converters to AC 110V-120V, 60Hz correction wave output.
- The product is equipped with a USB-A charging port and a USB-C charging port. USB-A supports QC3.0 quick charge protocol, the output is 5V/3A, 9V/2A, 12V/1.5A, QC18W Max. USB-C supports PD3.1 power delivery specification protocol, the output is 5V/3A, 9V3A, 12V/2.5A, PD30W Max.
- This product has overload, over-current and short-circuit protection. Fully protect your electrical appliance safety.

## Vehicle Power Inverters Compatible with Tesla

The input voltage for product is 11-17V, perfectly suitable for the 16V cigarette lighter socket of Tesla vehicles.

## Overload Protection Point

- The input voltage is 12V, when the AC output is overload of 450W~500W, the loading time of 400W~430W is more than 60 seconds, and the loading time of 430W~460W is more than 20 seconds.

## Short-circuit Protection

Twice is allowed(The time of short-circuit is more than 1 second every time) and then get into the locking state and the red light is always on. If you want to use, you must restart the host. Turn off the power and pay attention to restart host after red light is off. And the green light is always on, it is in a normal working state.

## Under-voltage Protection point

Under-voltage protection comes with restoration function, the under-voltage protection point is 10~11V under no-load condition, and monitoring sampling time is more than 0,5 second, The recovery voltage of under-voltage is 11~12V. Starting up host at under-voltage point, the system defaults the voltage of battery is too low and makes it under lock status, not allows to start up.At the same time, the green indicator light flashes slowly.

## Overvoltage Protection Point

Overvoltage protection comes with restoration function, the overvoltage protection point is 17~18V under no-load condition, the recovery voltage of overvoltage is 16~17.5V. Slowly flash of green indicator after overvoltage protection.

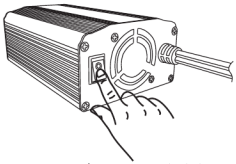
## Function of automatically adjusting fan's speed

Smart cooling fan system makes the car power inverter very silent when operating, and the fan runs faster whenthe device gets warmer or output power exceeds 70W, f you are concern about if the inverter working when thecooling fan work quietly,connect a more powerful device to test if the fan is working.




## Productinstructions

- Take out the product and connect the input cigarette lighter connector to the cigarette light port of your car.
- Press the product on switch.



- Check that the LED light is in a green and permanent state, and it can be used normally. If the LED lamp status is abnormal, please refer to “Troubleshooting” or contact customer service staff to help you solve it.
- Connect your electrical appliances to AC or USB ports.

## Specification Parameter

| | |
|---|---|
| DC Input | 11-17V, 40.0A |
| AC Output | 110-120V, 60Hz, 3.5A, 400W |
| USB Output | USB Output: 48W Max<br>USB-A: 5V⎓3.0A 9V⎓2.0A 12V⎓1.5A QC18W<br>USB-C: 5V⎓3.0A 9V⎓3.0A 12V⎓2.5A PD30W |
| Total Rated Output | 400W |
| Built-in Protections | Qutput short circuit protection,input overvoltage protection,output overload protection, over-current protection,over temperature protection,input under-voltage protection,USB output over-voltage protection,input anti-reverse-connection function. |
| Max Input Voltage Cutoff | DC 17~18V |
| Min Input Voltage Cutoff | DC 9.5-10.5V |
| Working Environment | Temperature: -5~40℃ Humidity: 10~90% |
| Storage Environment | Temperature: -20~80℃ Humidity: 5~95% |

## Safety Precautions

- Do not use with any appliance with dangerous voltage warning.
- Do not use with over 18V DC Input.
- Make sure to provide adequate ventilation to the inverter.
- Never place Inverter In an enclosure or near a heat source such as heat vent of cars and in direct sunlight.
- Do not use the inverter near any flammable liquid or gases.
- Do not expose to liquid or molsture or humldlty.
- Do not handle with wet hands.
- This inverter's working temperature is -10°C - 40°C(14°F - 104°F)
- Do not put metal fragment (eg. such as wire) inside.
- Do not attempt to dlssemble.
- Keep out of the reach of children.

## Troubleshooting

In order to facilitate customers to troubleshoot the use of the product, please refer to the following table of LED state.

| LED Status | Reasons | Solutions |
|---|---|---|
| Solid green light | AC and USB outputs are in normal working condition | |
| Red light | Low voltage or over voltage of AC input, overload of AC output | Plug out devices from AC outlets, restart the converter (in this case USB ports work) |
| No light | Inverter has no power | Connect to car cigarette lighter |
| | The fuse is blown | Send for inspection or repair |

## Warranty & Service Information

Our company provides customers with a warranty of 18 months from the date of purchase.Whether you need technical advice, repairs or original replacement parts and all other after-sales services, please contact us at **customers.us@bestek.com**. We will reply to you as soon as possible.