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## BESTEK TIC1130B

# BESTEK 300W Power Inverter User Manual

Model: TIC1130B

## 1. INTRODUCTION

This user manual provides important information for the safe and efficient operation of your BESTEK 300W Power Inverter. This device converts 12V DC power from your vehicle's battery into 110V AC household power, allowing you to operate various electronic devices on the go. It also features dual USB ports for charging compatible devices. Please read this manual thoroughly before use and retain it for future reference.



Image: BESTEK 300W Power Inverter, highlighting its primary function.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the inverter and connected devices.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Dry Environment:** Do not expose the inverter to water, rain, or snow. Operate only in dry conditions.
- **Proper Connection:** Connect the inverter only to a 12V DC power source. Connecting to a 24V DC source or higher will damage the unit.
- **Load Limits:** Do not exceed the inverter's rated power output (300W continuous, 700W peak). Overloading can cause damage or fire.
- **Fuse Protection:** The inverter has built-in fuse protection. If a fuse blows, replace it with the correct type and rating (40 amps).
- **Temperature:** Avoid operating the inverter in extremely high temperatures. The integrated cooling fan helps manage heat.
- **Children:** Keep the inverter out of reach of children.
- **Disassembly:** Do not attempt to disassemble or modify the inverter. Refer all servicing to qualified personnel.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- BESTEK 300W Power Inverter
- Instruction Manual
- Spare Fuse (if included)

## 4. PRODUCT FEATURES

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The BESTEK 300W Power Inverter offers the following key features:

- Provides 300 Watts continuous DC to AC power and 700 Watts instantaneous power.
- Features 2 AC outlets and 2 USB ports for versatile charging.
- Dual USB charging ports (0-2.4A) for powering USB compatible devices.
- Ultra-compact and lightweight design, suitable for travel.
- 24-inch cigarette lighter plug for convenient connection in vehicles.
- Multi-Protection: Built-in 40 amps fuse, protection against overheating, under and over voltage charging, and short circuiting.
- Durable metal housing for enhanced protection.
- Integrated cooling fan to reduce heat and prevent shortages.

## 5. PRODUCT OVERVIEW

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Familiarize yourself with the components of your power inverter.



Image: Top and front view of the BESTEK 300W Power Inverter, showing the 24-inch power cord, cooling fan, AC power switch, LED power indicator, and US sockets with USB charging ports.

- A. 24-inch Power Cord:** Connects to the vehicle's cigarette lighter socket.
- B. Cooling Fan:** Activates to dissipate heat during operation.
- C. AC Power Switch:** Turns the AC outlets on/off.
- D. LED Power Indicator:** Illuminates to show power status.
- E. 0-2.4A USB Charging Port:** Provides power for USB devices.
- F. 2.4A USB Charging Port:** Provides power for USB devices.
- G. US Socket:** 110V AC outlets for standard electrical devices.

# Dual-USB 4.2A Output

Simultaneously charges 2 devices at high speed.



Image: The inverter with two USB cables connected, demonstrating the dual 4.2A USB output for simultaneous high-speed charging.

# Isolation Voltage Protection

Perfect protection for your devices.

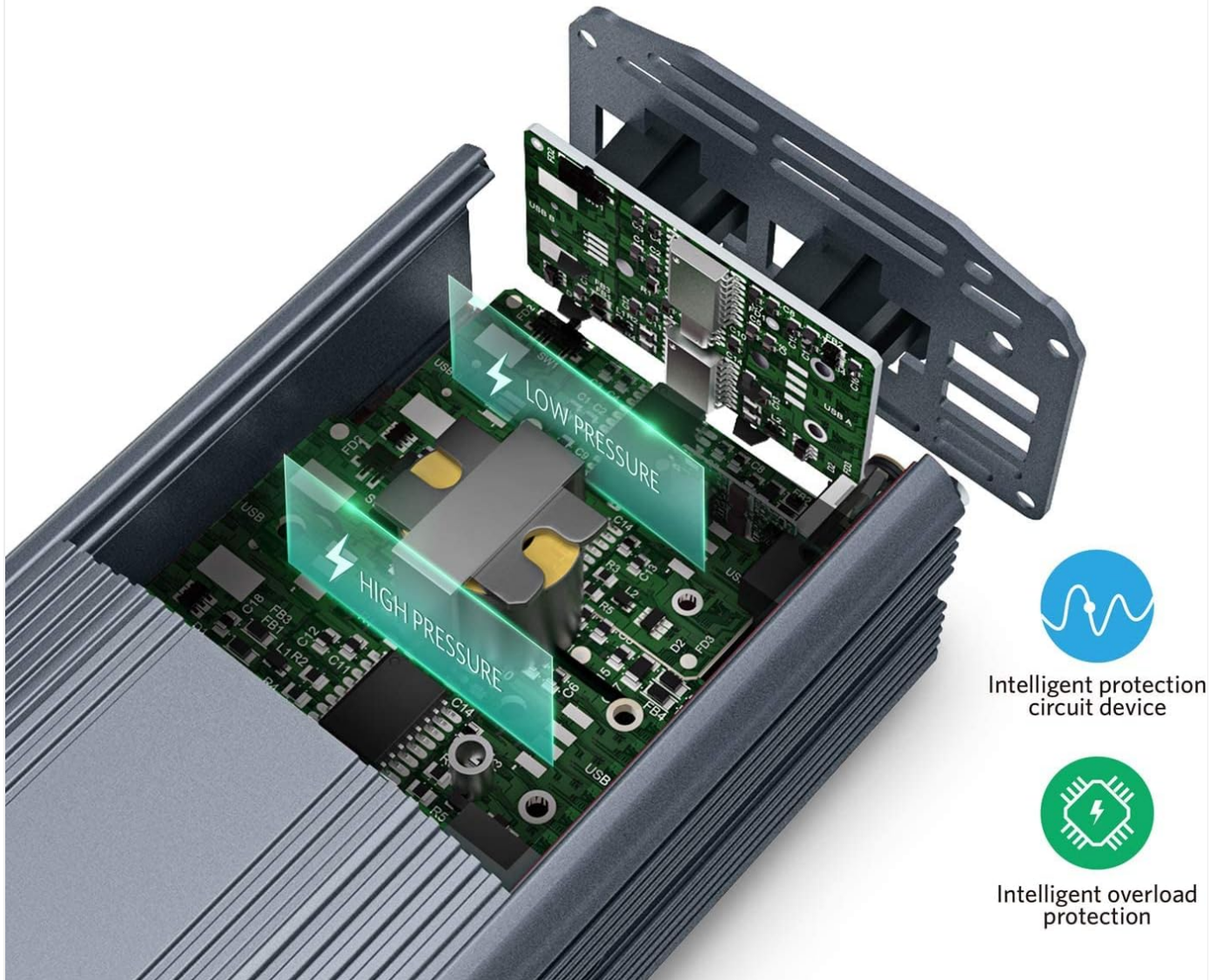


Image: An internal diagram of the inverter illustrating the isolation voltage protection, intelligent protection circuit, and intelligent overload protection features.



# Convenient Charging

Durable, vehicle cigarette lighter plug provides high-speed charging from your car.

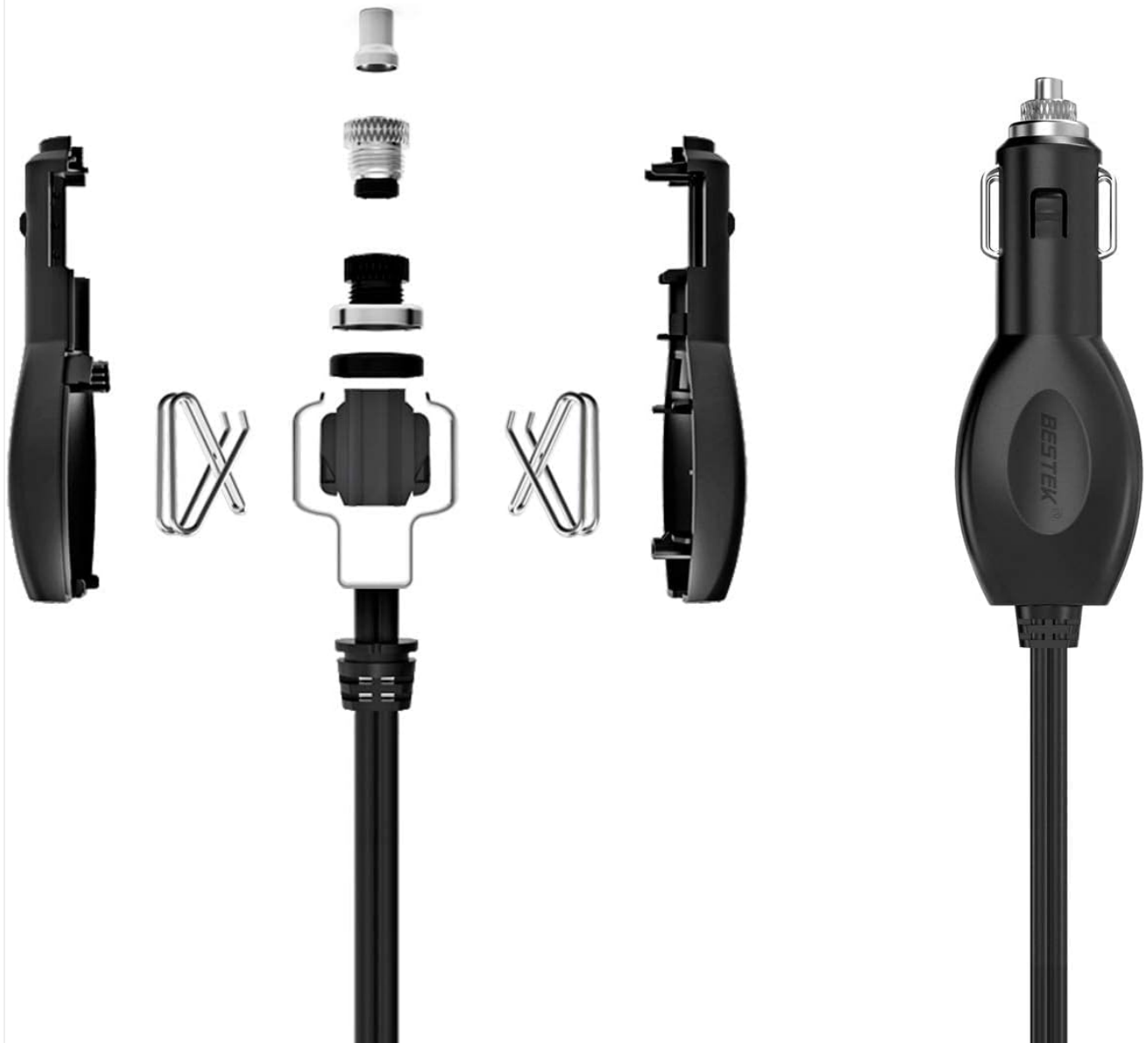


Image: An exploded view showing the internal components of the durable vehicle cigarette lighter plug, designed for high-speed charging.

## 6. SETUP

Follow these steps to set up your power inverter:

1. Ensure your vehicle's engine is running to provide stable 12V DC power and prevent draining the car battery.
2. Insert the inverter's cigarette lighter plug firmly into your vehicle's 12V cigarette lighter socket.
3. Confirm the LED power indicator on the inverter illuminates, indicating it is receiving power.
4. Place the inverter on a stable, flat surface, ensuring adequate space around it for ventilation. Do not cover the cooling fan or vents.



Image: The BESTEK 300W Power Inverter connected to a vehicle's cigarette lighter socket, with a laptop and smartphone charging.

## 7. OPERATING INSTRUCTIONS

Once set up, you can begin using the inverter to power your devices.

### Using the AC Outlets:

1. Ensure the total power consumption of your AC devices does not exceed 300 Watts.
2. Plug your AC device(s) into the US sockets on the inverter.
3. Flip the AC Power Switch to the "ON" position. The LED indicator will confirm power is supplied.
4. When finished, turn off the AC Power Switch and unplug your devices.

### Using the USB Ports:

1. The USB ports are active as soon as the inverter is plugged into the vehicle's 12V socket, regardless of the AC Power Switch position.

2. Connect your USB-powered devices (e.g., smartphones, tablets) to the USB charging ports.
3. The ports provide up to 4.2A total output for fast charging.

## 8. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings are free from dust and debris.
- **Fuse Replacement:** If the inverter stops working due to an overload or short circuit, the internal 40A fuse may need replacement. Refer to the "Troubleshooting" section for guidance. Always use a fuse of the exact same type and rating.
- **Storage:** When not in use, store the inverter in a cool, dry place away from direct sunlight and moisture.

## 9. TROUBLESHOOTING

If you encounter issues with your BESTEK Power Inverter, refer to the following common problems and solutions:

| Problem                                       | Possible Cause   | Solution  |
|---|--|---|
| No power output from AC outlets or USB ports. | <ul style="list-style-type: none"> <li>◦ Inverter not properly plugged into 12V socket.</li> <li>◦ Vehicle's cigarette lighter fuse blown.</li> <li>◦ Inverter's internal fuse blown.</li> <li>◦ AC Power Switch is OFF.</li> <li>◦ Vehicle battery voltage too low.</li> </ul>  | <ul style="list-style-type: none"> <li>◦ Ensure firm connection.</li> <li>◦ Check and replace vehicle's fuse if necessary.</li> <li>◦ Replace inverter's 40A fuse (consult "Maintenance" section).</li> <li>◦ Turn AC Power Switch to "ON".</li> <li>◦ Start vehicle engine to recharge battery.</li> </ul>           |
| Inverter shuts down automatically.            | <ul style="list-style-type: none"> <li>◦ Overload (connected device exceeds 300W).</li> <li>◦ Overheating (poor ventilation or high ambient temperature).</li> <li>◦ Under-voltage protection (vehicle battery too low).</li> <li>◦ Over-voltage protection (input voltage too high).</li> <li>◦ Short circuit in connected device.</li> </ul> | <ul style="list-style-type: none"> <li>◦ Reduce load; use devices within 300W limit.</li> <li>◦ Ensure proper ventilation; allow inverter to cool down.</li> <li>◦ Start vehicle engine to recharge battery.</li> <li>◦ Verify input voltage is 12V DC.</li> <li>◦ Disconnect device and check for faults.</li> </ul> |
| Fan is not running.                           | <ul style="list-style-type: none"> <li>◦ Fan operates only when needed (under load or high temperature).</li> <li>◦ Fan obstructed or faulty.</li> </ul>   | <ul style="list-style-type: none"> <li>◦ This is normal behavior if the inverter is not under significant load or is cool.</li> <li>◦ Check for obstructions; if still not running under load and inverter is hot, contact support.</li> </ul>  |

## 10. SPECIFICATIONS

| Feature                | Detail   |
|------------------------|--|
| Brand                  | BESTEK   |
| Model Name             | TIC1130B   |
| Continuous Power       | 300 Watts  |
| Peak Power             | 700 Watts  |
| Input Voltage          | 12 Volts DC  |
| Output Voltage         | 110V AC  |
| USB Output             | Dual 4.2A (total)  |
| Total Power Outlets    | 2 AC, 2 USB  |
| Protection             | Overheating, Under/Over Voltage, Short Circuit, Overload |
| Fuse                   | Built-in 40 Amps   |
| Dimensions (L x W x H) | 15.88 x 11.79 x 5.59 cm                                  |
| Weight                 | 480 g  |
| Housing Material       | Aluminum Alloy   |

## 11. WARRANTY AND SUPPORT

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Your BESTEK 300W Power Inverter comes with an 18-month warranty from the date of purchase. This warranty covers manufacturing defects and workmanship.

For technical support, warranty claims, or general inquiries, please contact BESTEK customer service. Refer to the contact information provided with your product packaging or visit the official BESTEK website.

**Note:** The warranty does not cover damage caused by improper use, unauthorized modifications, accidents, or natural disasters.

