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› [BESTEK](#) /

› [BESTEK 150W Car Power Inverter \(Model MRI1511BU\) Instruction Manual](#)

## BESTEK MRI1511BU

# BESTEK 150W Car Power Inverter Instruction Manual

Model: MRI1511BU

DC 12V to 110V AC Converter with PD30W USB-C & QC3.0 18W USB-A Car Outlet Adapter

## 1. INTRODUCTION

Thank you for choosing the BESTEK 150W Car Power Inverter. This device converts your vehicle's DC 12V power into standard AC 110V-120V household power, along with providing fast-charging USB ports. It is designed for convenient power access on the go, ideal for charging laptops, phones, tablets, and other small electronic devices during driving, road trips, or camping.

## 2. SAFETY INFORMATION

**Please read all safety warnings and instructions carefully before using this product to prevent injury or damage.**

- Do not expose the inverter to water, rain, or snow.
- Do not operate the inverter if it has received a sharp blow, been dropped, or otherwise damaged.
- Do not disassemble the inverter. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce the risk of electric shock, unplug the inverter from the outlet before attempting any maintenance or cleaning.
- Ensure the device you are powering does not exceed the inverter's 150W continuous power rating.
- Keep the inverter away from flammable materials, gases, or liquids.
- Ensure adequate ventilation around the inverter to prevent overheating.
- This device is equipped with built-in advanced MCU intelligent chips for protection against overheating, undervoltage, overcurrent, overvoltage, overload, and short circuits.

## 3. PRODUCT FEATURES

- **150W Continuous Power:** Provides 150W continuous DC to AC power and 250W peak power.
- **Multiple Charging Ports:** Features 1 AC outlet, 1 USB-C PD30W port, and 1 USB-A QC18W port.
- **Safety & Durability:** Rugged aircraft aluminum housing for drop and crash protection, effective heat dissipation. Built-in intelligent chips prevent overheating, undervoltage, overcurrent, overvoltage, overload, and short circuits.

- **Ultra Compact & Portable Design:** Lightweight and compact (3.54\*2.56\*1.38 inches) for easy portability and storage.
- **Smart Cooling Fan:** Built-in intelligent cooling fan with temperature sensor automatically adjusts speed to maintain optimal operating conditions and quiet operation.



Image: BESTEK 150W Power Inverter showing its AC outlet, USB-C PD30W, and USB-A QC18W fast charging ports.

## 4. PACKAGE CONTENTS

- BESTEK 150W Power Inverter
- User Manual

## 5. SETUP

1. Locate your vehicle's 12V DC cigarette lighter socket.
2. Ensure the inverter's power switch is in the OFF position.
3. Insert the inverter's cigarette lighter plug firmly into your vehicle's 12V DC socket.
4. Turn on the inverter by flipping the power switch. The LED indicator will illuminate green, indicating it is ready for use.



## Aluminum Body



## Built-in Fuse

### On-button Switch



### 1.97ft/0.6m

Cigarette Lighter Cable



Image: Close-up of the BESTEK 150W Power Inverter highlighting its aluminum body, built-in fuse, power switch, and the attached cigarette lighter cable.

## 6. OPERATING INSTRUCTIONS

Once the inverter is powered on (green LED indicator), you can connect your devices:

- **AC Outlet:** Plug your AC-powered device (e.g., laptop charger) into the 110V-120V AC outlet. Ensure the device's wattage does not exceed 150W.
- **USB-C PD30W Port:** Connect your USB-C compatible device for fast charging. This port supports Power Delivery up to 30W.
- **USB-A QC18W Port:** Connect your USB-A compatible device for Quick Charge up to 18W.

### Note:

- Always turn off the inverter when not in use to conserve vehicle battery power.
- If the red LED illuminates, it indicates a fault (e.g., overload, overheating). Disconnect devices and troubleshoot before restarting.



Image: Demonstrates connecting devices to the PD30W USB-C, QC18W USB-A, and 110V AC ports for fast charging.

## 7. UNIVERSAL COMPATIBILITY

The BESTEK 150W Car Power Inverter is designed to power a wide range of devices, making it versatile for various needs.

- **For Laptops:** Compatible with MacBook Pro/Air Series, HP Spectre Series, Dell XPS Series, Surface Pro, and other laptops.
- **For Phones & Pads:** Charges various smartphones and tablets.
- **For Gaming Devices:** Supports devices like Nintendo Switch, Steam Deck, PSP, and Xbox.
- **For Car Accessories:** Can power air compressors, Bluetooth speakers, small fans, and wireless headphones.

# Universal Compatibility



Image: Illustrates the broad compatibility of the inverter with different electronic devices and car accessories.

## 8. SMART COOLING FAN

The inverter features a built-in intelligent cooling fan and temperature sensor. This system automatically adjusts the fan speed based on the inverter's working state and ambient temperature. This ensures the device maintains optimal performance and a comfortable, quiet operating environment, preventing equipment overheating.

# Smart Cooling Fan

Built-in intelligent cooling fan to prevent equipment overheating

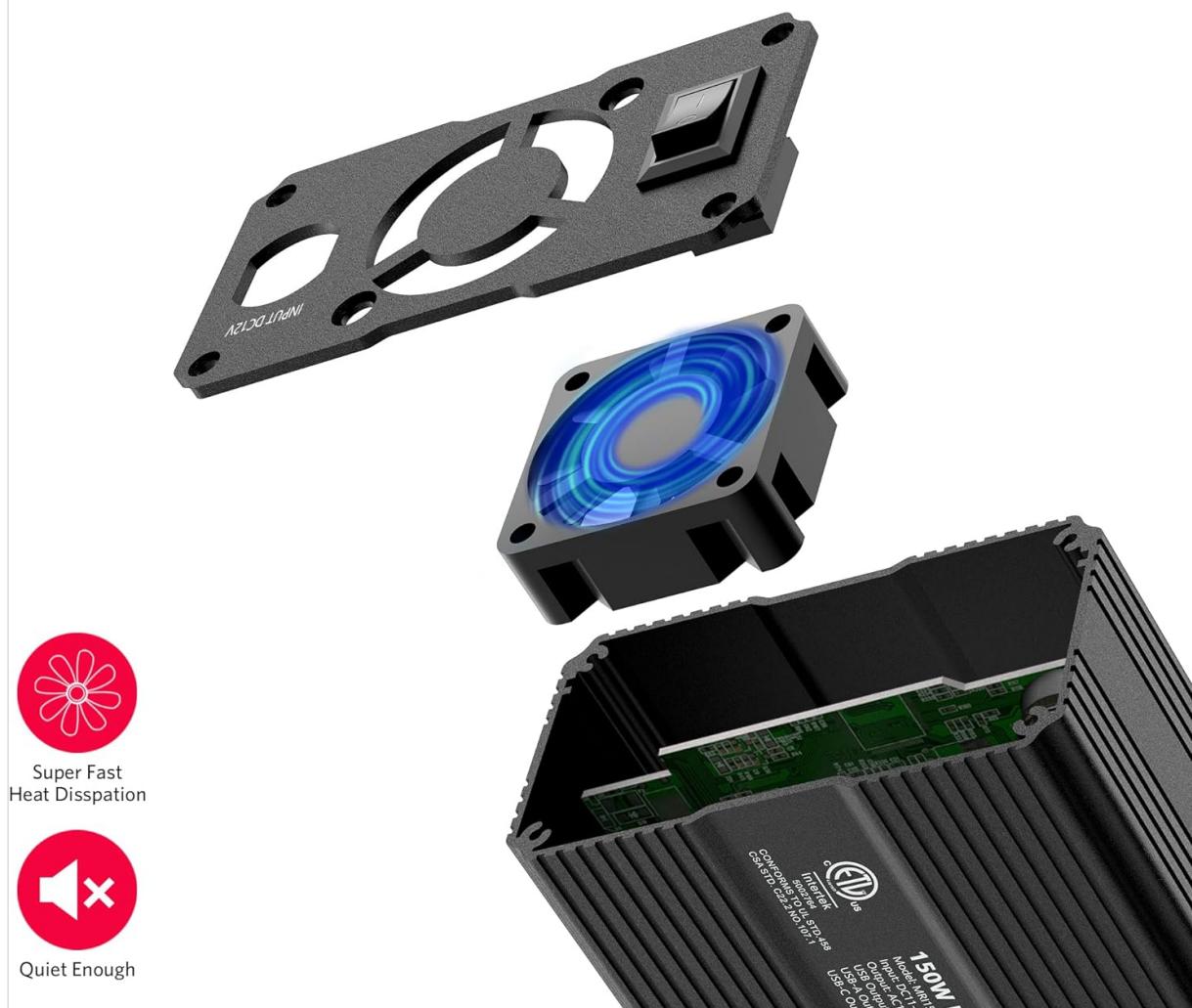


Image: An exploded view demonstrating the internal smart cooling fan and heat dissipation design of the inverter.

## 9. ADVANCED PROTECTION FEATURES

The BESTEK 150W Power Inverter incorporates multiple safety features to protect both the device and your connected electronics:

- Over-Voltage Protection
- Under-Voltage Protection
- Over-Load Protection
- Short-Circuit Protection
- Over-Temperature Protection
- Cooling Fans (for thermal management)

# ISOLATION VOLTAGE PROTECTION



Over-Voltage Protection



Over-Load Protection



Under-Voltage Protection



Short-Circuit Protection



Over-Temperature Protection



Cooling Fans

Image: An infographic illustrating the six key protection features of the inverter, including over-voltage, under-voltage, overload, short-circuit, over-temperature protection, and cooling fans.

## 10. MAINTENANCE

- Keep the inverter clean and free from dust and debris. Use a dry cloth for cleaning.
- Ensure the cooling fan vents are not obstructed to allow for proper airflow.
- Store the inverter in a cool, dry place when not in use.
- Regularly check the cigarette lighter plug and cable for any signs of damage.

## 11. TROUBLESHOOTING

- **No Power / Red LED:** Check if the inverter is securely plugged into the 12V DC socket. Ensure the vehicle engine is running for optimal power. Verify that the connected device's power consumption does not exceed 150W. Disconnect and reconnect the inverter.
- **Overheating:** If the inverter feels excessively hot, disconnect devices and allow it to cool down. Ensure the cooling fan vents are clear and the inverter is in a well-ventilated area.
- **Device Not Charging:** Ensure the device is properly connected to the correct port (AC, USB-C, or USB-A). Check the device's charging cable for damage.

## 12. SPECIFICATIONS

Specification	Value
Model Number	MRI1511BU
Input Voltage	DC 12V (11-15V)
AC Output Voltage	AC 110-120V
AC Output Frequency	60Hz
Continuous Power	150W
Peak Power	250W
USB-A Output	QC18W Max (5V-3A, 9V-2A, 12V-1.5A)

USB-C Output	PD30W Max (5V-3A, 9V-3A, 12V-2.5A)
Product Dimensions	3.74 x 2.56 x 0.98 inches
Item Weight	6.8 ounces

## 13. WARRANTY AND SUPPORT

BESTEK provides the following for your product:

- **18-Month Free Replacement Warranty:** Covers manufacturing defects and ensures product reliability.
- **7\*24H Customer Service:** Dedicated support team available around the clock to assist with any inquiries or issues.

For any questions or assistance, please feel free to contact BESTEK customer service. We are committed to solving your concerns promptly.



Image: BESTEK Service Plan outlining warranty, return policy, and customer support channels.

## 14. PRODUCT VIDEOS

### Unboxing 150W Power Inverter DC 12V to 110V

Video: An unboxing video demonstrating the BESTEK 150W Power Inverter, showcasing its compact size and features. This video is provided by a seller.

### Why you need this awesome adapter for your car!

Video: A demonstration highlighting the benefits and practical uses of the BESTEK 150W Power Inverter in a car setting. This video is provided by a seller.