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BESTEK MRI5011IU

BESTEK 500 Watt Car Power Inverter User Manual

Model: MRI5011IU

INTRODUCTION

Thank you for choosing the BESTEK 500 Watt Car Power Inverter. This device is designed to convert 12V DC power from your vehicle's battery into 110V AC power, allowing you to operate various electronic devices on the go. It also features multiple USB charging ports for your mobile devices. Please read this manual thoroughly before use to ensure safe and optimal operation.

What's in the Box

- 1 x BESTEK 500W Car Power Inverter
- 1 x User Manual (this document)
- 2 x Battery Clamps
- 1 x Cigarette Lighter Plug Cable

SAFETY INFORMATION

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

- Do not open the inverter casing. There are no user-serviceable parts inside.
- Keep the inverter away from water, moisture, and extreme temperatures.
- Ensure proper ventilation around the inverter during operation to prevent overheating.
- Do not connect the inverter to AC power sources. It is designed for DC 12V input only.
- Always connect the inverter to the battery terminals correctly (positive to positive, negative to negative).
- Avoid overloading the inverter. Do not exceed the rated continuous power output of 500W.
- Disconnect the inverter from the power source when not in use.
- Keep out of reach of children.

PRODUCT OVERVIEW

Familiarize yourself with the components of your BESTEK Power Inverter:

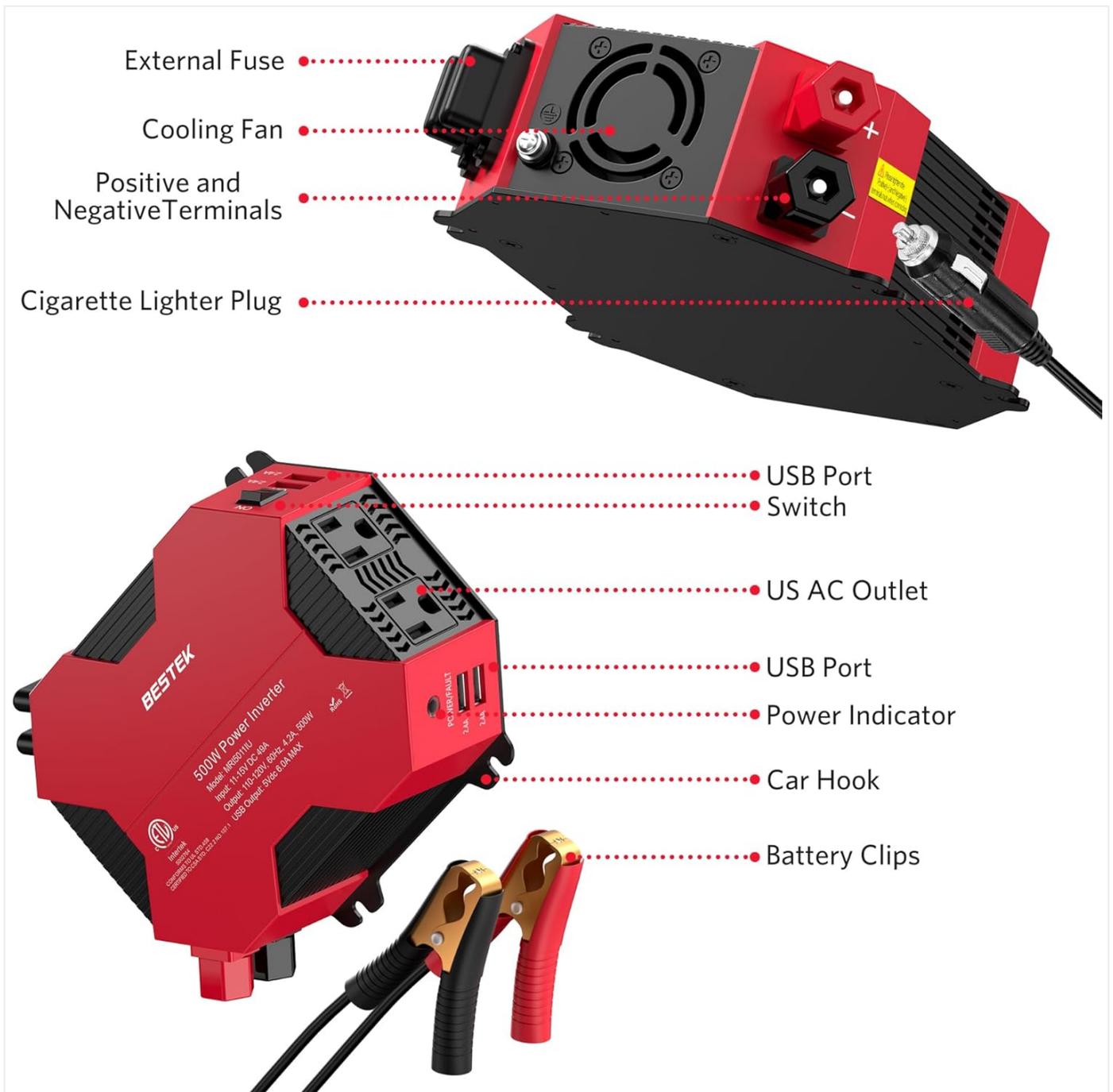


Figure 1: Labeled diagram of the BESTEK 500W Power Inverter components.

1. **AC Outlets:** Two 110V AC outlets for powering standard electronic devices.
2. **USB Charging Ports:** Four USB ports (2.4A each) for charging USB-powered devices.
3. **Power Switch:** Turns the inverter ON or OFF.
4. **Power Indicator:** LED light indicating operational status and fault conditions.
5. **Cooling Fan:** Automatically activates to dissipate heat during operation.
6. **External Fuse:** Replaceable fuse for circuit protection.
7. **Positive (+) and Negative (-) Terminals:** For connecting battery clamps.
8. **Cigarette Lighter Plug:** For connecting to a vehicle's 12V cigarette lighter socket.
9. **Battery Clamps:** For direct connection to a vehicle's battery.
10. **Car Hook:** For convenient placement within the vehicle.



Figure 2: BESTEK 500W Power Inverter with its power accessories.

SETUP

The BESTEK 500W Power Inverter can be connected to your vehicle's 12V power source in two ways:

Method 1: Using the Cigarette Lighter Plug (for loads up to 150W)

1. Ensure the inverter's power switch is in the OFF position.
2. Insert the cigarette lighter plug cable firmly into the inverter's DC input port.
3. Plug the other end of the cigarette lighter plug into your vehicle's 12V cigarette lighter socket.
4. Proceed to the Operating Instructions section.



Figure 3: Connecting the inverter using the cigarette lighter plug.

Method 2: Using Battery Clamps (for loads up to 500W)

This method is recommended for higher power devices or when the cigarette lighter socket cannot provide sufficient power.

1. Ensure the inverter's power switch is in the OFF position.
2. Connect the red battery clamp to the positive (+) terminal of the inverter.
3. Connect the black battery clamp to the negative (-) terminal of the inverter.
4. Connect the red battery clamp to the positive (+) terminal of your vehicle's battery.
5. Connect the black battery clamp to the negative (-) terminal of your vehicle's battery.
6. Ensure all connections are secure and tight.
7. Proceed to the Operating Instructions section.



Figure 4: Connecting the inverter using battery clamps.

OPERATING INSTRUCTIONS

Once the inverter is properly connected to your vehicle's power source:

1. Turn on the inverter by flipping the power switch to the "ON" position. The power indicator light should illuminate.
2. Plug your AC-powered devices into the 110V AC outlets or your USB-powered devices into the USB charging ports.
3. Ensure the total power consumption of your devices does not exceed the inverter's continuous power rating (500W).
4. When finished, turn off the inverter and disconnect your devices.
5. Disconnect the inverter from the vehicle's power source.

Smart 4 USB Charging 5V 4.8A 24W



Intelligent
Identification



Quick Charge



4 USB Ports



2 AC Outlets



Figure 5: Charging devices using the inverter's USB ports.

High Power Conversion

92% high power conversion efficiency to charge faster



Figure 6: Powering a laptop with the inverter's AC outlet.

INSIDE CAR USE

Make Camping Road Trips get more Easier, Last Longer



Figure 7: Inverter providing power for devices during car travel.

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your inverter:

- **Cleaning:** Regularly wipe the exterior of the inverter with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and debris. A built-in cooling fan helps dissipate heat efficiently.
- **Fuse Replacement:** The inverter has a built-in replaceable 30A/32V*2 fuse. If the inverter stops working due to an overload or short circuit, the fuse may need replacement. Refer to the product diagram for the fuse location. Always replace with a fuse of the same type and rating.

Efficient and Quiet

Helps your device dissipate heat better



Built-In
Cooling Fan

Figure 8: The inverter features an efficient and quiet cooling fan.



Figure 9: Location of the external replaceable fuses.

TROUBLESHOOTING

The inverter is equipped with various protection features indicated by the power/fault LED. Refer to the table below for common issues and their solutions:

		
<p>Steady Green Light: Normal Operation</p>	<p>Steady Red Light: Short Circuit Protection</p>	
		
		
<p>Green Light Flashing: Undervoltage/ Overvoltage Protection</p>	<p>Red Light Flashing: Overload Protection</p>	<p>Red & Green Light Flashing Alternately: Over Temperature Protection</p>

Figure 10: LED Indicator Status Guide.

Problem	Possible Cause	Solution
No output voltage, LED off	Inverter switch OFF Poor connection to battery Vehicle battery dead/low Blown fuse	Turn switch ON Check and secure connections Recharge or replace battery Replace fuse (see Maintenance)
Red LED flashing (Overload Protection)	Connected device exceeds 500W Device has high surge power	Reduce load, use lower wattage device Check device's starting wattage
Green LED flashing (Under/Overvoltage Protection)	Vehicle battery voltage too low or too high	Check vehicle battery voltage. Recharge if low. Ensure vehicle is running if using high loads.
Red & Green LED flashing alternately (Over Temperature Protection)	Inverter is overheating Blocked ventilation	Allow inverter to cool down Ensure proper ventilation, clear obstructions Reduce load
Steady Red LED (Short Circuit Protection)	Short circuit in connected device or wiring	Disconnect all devices and check for short circuits. If problem persists, contact support.

Isolation Voltage Protection

Perfect protection for your devices

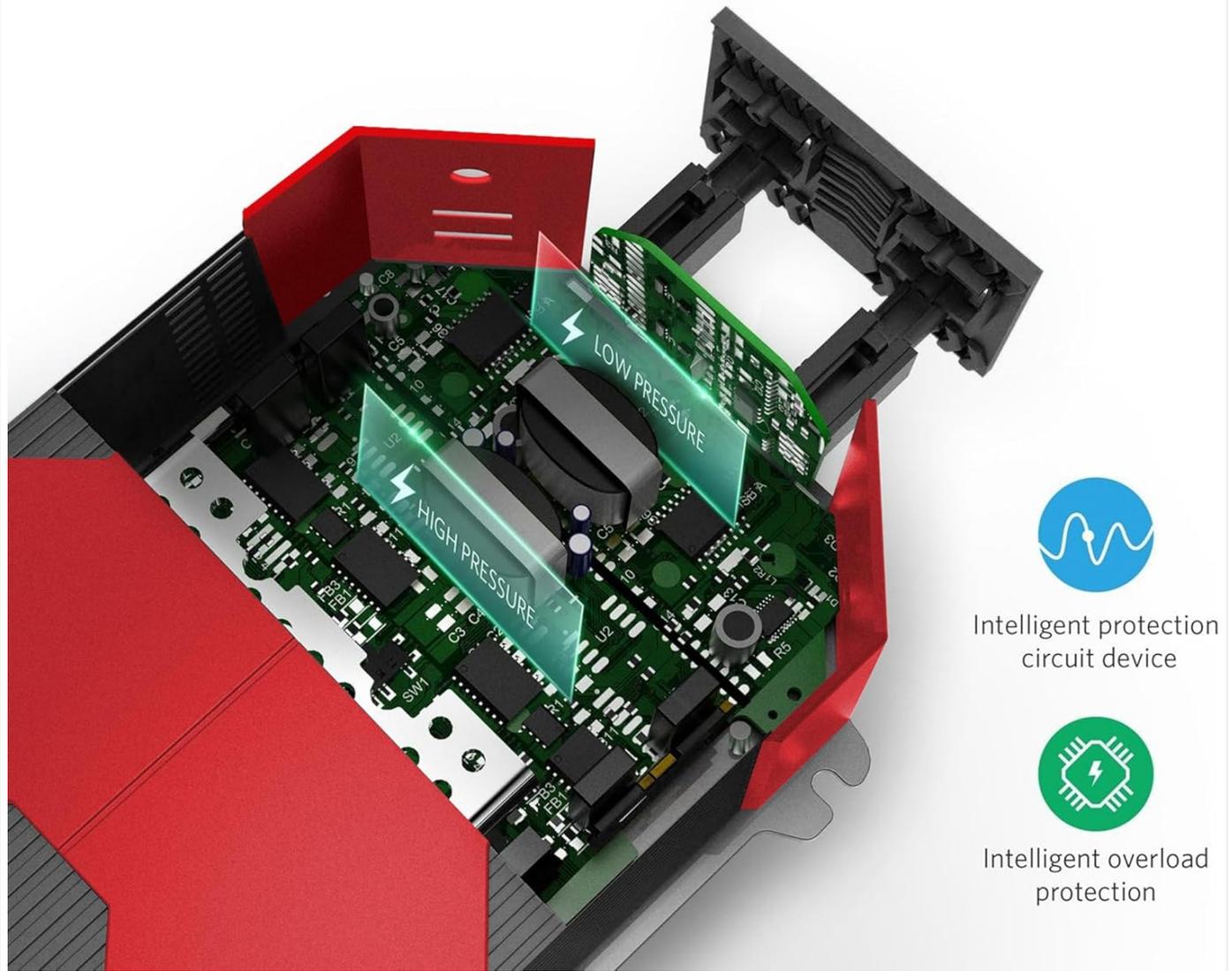


Figure 11: The inverter features multiple intelligent protection mechanisms.

SPECIFICATIONS

Feature	Detail
Model Number	MRI5011IU
Continuous Power	500 Watts
Peak Power	1000 Watts
Input Voltage	DC 12V (11-15V DC, 49A)
AC Output Voltage	110-120V AC
AC Output Frequency	60Hz

Feature	Detail
AC Output Current	4.2A
USB Output	5V DC, 4.8A MAX (4 ports)
Product Dimensions	6.1 x 5.35 x 2.1 inches
Item Weight	2.39 pounds
Protections	Overheating, Overloading, Low Load, Short Circuit, Low Voltage, Over Voltage



Figure 12: Product dimensions.

WARRANTY AND SUPPORT

BESTEK provides an 18-Months Warranty for this product. For warranty claims, technical support, or any questions

regarding your power inverter, please contact BESTEK customer service. Refer to the contact information provided in your product packaging or visit the official BESTEK website.

Note: No official seller videos were provided for this product. Customer and influencer videos are not included as per instructions.

