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BESTEK MRI2011

BESTEK 200W Power Inverter User Manual

Model: MRI2011

1. Introduction

The BESTEK 200W Power Inverter converts 12V DC power from your vehicle's cigarette lighter socket into 110V AC household power, along with USB-C and USB-A charging ports. This device is designed to power various electronic devices on the go, such as laptops, tablets, smartphones, and small appliances.

1.1 Package Contents

- BESTEK 200W Power Inverter
- User Manual



Image 1.1: The BESTEK 200W Power Inverter, showing its compact design and integrated car plug.

2. Safety Instructions

Please read and understand all safety instructions before using the power inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Vehicle Compatibility:** This inverter is designed for 12V DC vehicle electrical systems only. Do not use with 24V systems.
- **Ventilation:** Ensure adequate ventilation around the inverter during operation. Do not block the cooling fan or vents.
- **Moisture:** Do not expose the inverter to rain, moisture, or water.
- **Overload Protection:** Do not exceed the inverter's rated continuous power output of 200W. The peak power is 500W. Overloading can damage the inverter and connected devices.

- **Disconnect When Not in Use:** Disconnect the inverter from the vehicle's power source when not in use to prevent battery drain.
- **Temperature:** Avoid operating the inverter in extremely high temperatures. The built-in protection system will shut down the unit if it overheats.
- **Short-Circuit:** Avoid short-circuiting the output terminals.
- **Children:** Keep the inverter out of reach of children.



Image 2.1: Visual representation of the inverter's 6-fold protection system, including over-voltage, over-current, short-circuit, over-load, over-heat, and under-voltage protection.

3. Product Features

The BESTEK 200W Power Inverter is equipped with multiple features for versatile power delivery:

- **200W Continuous Power:** Provides 200 watts of continuous DC to AC power, with a peak power of 500 watts.
- **Dual AC Outlets:** Features two 110V AC outlets for standard household devices.
- **Fast Charging USB Ports:** Includes one PD 30W USB-C port and one QC3.0 18W USB-A port. Total USB output is 48W.
- **Smart IC Technology:** Automatically detects connected devices to deliver optimal charging speed while protecting them.
- **5-in-1 Design:** Combines 2 AC outlets, 2 USB charging ports, and a 12V cigarette lighter socket passthrough.
- **Compact Cup Holder Design:** Designed to fit conveniently into a vehicle's cup holder, saving space.
- **Multi-Protection System:** Built-in 25A/32V fuse and automatic shutdown functions protect against overvoltage, undervoltage, overload, overcurrent, overheating, and short-circuits.
- **Wide Input Voltage Range:** Supports an input voltage range of 11-17V, specifically designed for vehicles like the Tesla Model Y with a 16V accessory socket.



Image 3.1: Detailed view of the inverter's top panel, showing the power button, indicator light, QC18W USB-A port, PD30W USB-C port, 12V cigarette lighter socket, dual 120V AC outlets, and cooling fan vents.



Image 3.2: The inverter in use, demonstrating its ability to charge a laptop, tablet, and smartphone simultaneously via its AC outlets and USB ports.



Image 3.3: The inverter positioned in a vehicle's cup holder, illustrating its space-saving design.

4. Setup and Installation

1. **Insert into 12V Socket:** Plug the inverter's car adapter firmly into your vehicle's 12V cigarette lighter socket. Ensure a secure connection.
2. **Positioning:** Place the inverter in a stable location, such as a cup holder, ensuring that the cooling vents are not obstructed. The 24-inch power cord allows for flexible placement.
3. **Vehicle Ignition:** For optimal performance and to prevent draining your vehicle's battery, it is recommended to use the inverter while the vehicle's engine is running.

5. Operating Instructions

1. **Power On/Off:** Press the power button located on the top of the inverter to turn the unit on or off. The indicator light will illuminate when the inverter is active.
2. **Connecting AC Devices:** Plug your 110V AC devices into the dual AC outlets. Ensure the total wattage of connected devices does not exceed 200W.
3. **Connecting USB Devices:** Connect your USB-C compatible devices to the PD 30W port and USB-A compatible devices to the QC3.0 18W port. The smart IC technology will automatically detect and deliver the appropriate charging current.
4. **Using the 12V Socket:** The integrated 12V cigarette lighter socket can be used to power additional 12V accessories.
5. **Monitoring:** Observe the indicator light for operational status. A green light typically indicates normal operation, while a red light or flashing light may indicate a fault or protection mode.

6. Maintenance

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and vents remain free from dust and debris to maintain proper airflow.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect the power cord and plug for any signs of damage. Do not use if damaged.

7. Troubleshooting

If you encounter issues with your BESTEK 200W Power Inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/Indicator light off	Inverter not properly plugged in; Vehicle's cigarette lighter socket not providing power; Blown fuse in vehicle or inverter.	Ensure firm connection; Check vehicle's ignition; Inspect and replace fuses if necessary (consult vehicle manual for vehicle fuse location).
Inverter shuts down (Fault light on)	Overload protection; Overheating protection; Low/High input voltage; Short-circuit.	Reduce connected load; Ensure proper ventilation, allow to cool; Check vehicle battery voltage; Disconnect and reconnect devices.
Fan is loud	Normal operation under load; Fan obstruction.	The fan will operate to cool the unit under load. Ensure vents are clear. If noise is excessive or unusual, contact customer support.
Devices not charging via USB	Device not compatible with fast charging; Cable issue; Inverter off.	Ensure device supports PD/QC; Try a different USB cable; Ensure inverter is powered on.

8. Specifications

Feature	Specification
Model	MRI2011
Input Voltage	DC 12V (11-17V)
AC Output	AC 110-120V, 60Hz
Continuous Power	200W
Peak Power	500W
USB-C Output	PD 30W (5V/3A, 9V/3A, 12V/2.5A)
USB-A Output	QC3.0 18W (5V/3A, 9V/2A, 12V/1.5A)
Total USB Output	48W
Dimensions (L x W x H)	3.18 x 2.94 x 5.60 inches
Weight	0.97 lbs (approx. 15.5 oz)
Protection Features	Overvoltage, Undervoltage, Overload, Overcurrent, Overheating, Short-circuit

9. Warranty and Support

BESTEK provides comprehensive support for its products:

- **Warranty:** 24 Months Protection from the date of purchase.
- **Return Policy:** 30 Days Return Policy for eligible products.
- **Defects:** Returns accepted for products with manufacturing defects.

9.1 Customer Support

For any inquiries or assistance, please contact BESTEK customer support:

- **Availability:** 24-hour support.
- **Contact Methods:** Email and Phone support are available.



Image 9.1: Overview of BESTEK's service plan and customer support options.

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