

BESTEK MRI2013EU

BESTEK 200W Power Inverter User Manual

Model: MRI2013EU | Brand: BESTEK

1. INTRODUCTION

Thank you for choosing the BESTEK 200W Power Inverter. This device converts 12V DC power from your vehicle's battery into 240V AC household power, along with multiple USB charging ports. It is designed for charging electronic devices, camping, and mobile office use. Please read this manual thoroughly before use to ensure safe and optimal operation.

2. SAFETY INSTRUCTIONS

Adhering to these safety guidelines is crucial to prevent injury and damage to the inverter or connected devices.

- **Power Limit:** Ensure that the total power consumption of all connected devices does not exceed 200W. Overloading the inverter can cause damage and trigger protection mechanisms.
- **Ventilation:** Always ensure adequate ventilation around the inverter. Do not block the cooling fan or air vents. Overheating can lead to automatic shutdown.
- **Environment:** Use the inverter in a dry, well-ventilated area, away from direct sunlight, heat sources, flammable materials, and moisture.
- **Connection:** Connect the inverter only to a 12V DC power source (e.g., a car cigarette lighter socket). Do not connect to 24V DC systems.
- **Children:** Keep the inverter out of reach of children.
- **Disassembly:** Do not attempt to disassemble, modify, or repair the inverter. Refer all servicing to qualified personnel.
- **Protection Features:** The inverter includes built-in protections against overvoltage, undervoltage, overload, short circuit, and overheating. If a protection is triggered, the inverter may shut down automatically.

PROTEZIONE DA TENSIONE DI ISOLAMENTO



Sovratensione
Protezione



Sovraccarico
Protezione



Sottotensione
Protezione



Corto circuito
Protezione



Sovratemperatura
Protezione



Ventole di
raffreddamento

The inverter features multiple protection mechanisms for safe operation.

3. PRODUCT OVERVIEW

The BESTEK 200W Power Inverter is equipped with various ports and features for versatile power delivery.

Components:

- **AC Outlet:** Universal EU socket for 240V AC devices.
- **USB-C Ports:** One 65W PD (Power Delivery) and one 30W QC3.0 (Quick Charge) port for fast charging compatible devices.
- **USB-A Ports:** Two 18W QC3.0 ports for quick charging.
- **LCD Display:** Shows input voltage from the vehicle battery.
- **Cooling Fan:** Automatically activates to dissipate heat.
- **Cigarette Lighter Plug:** For connecting to the vehicle's 12V DC power socket.



Front and side view of the inverter highlighting its various ports and features.

Key Features:

- **200W Continuous Power:** Provides stable power for various electronics.
- **High-Speed USB Charging:** Total USB output of 131W, including PD 65W and QC 18W ports for rapid charging of smartphones, tablets, and laptops.
- **Digital LCD Screen:** Displays real-time input voltage for monitoring.
- **Compact and Portable Design:** Measures approximately 8L x 3.3W x 12.5H cm, making it easy to store and transport.
- **Smart Cooling System:** The fan adjusts speed based on load and temperature, reducing noise and preventing overheating.

4. SETUP

Follow these steps to set up your BESTEK Power Inverter:

1. **Vehicle Preparation:** Ensure your vehicle's engine is running to provide a stable 12V power supply and prevent draining the car battery, especially when using high-power devices.
2. **Connect to Cigarette Lighter:** Insert the inverter's cigarette lighter plug firmly into your vehicle's 12V cigarette lighter socket. The LCD display should illuminate, showing the current input voltage.

3. **Placement:** Place the inverter on a stable surface, ensuring that the air vents are not obstructed. Maintain sufficient space around the unit for proper airflow.



The inverter connected in a vehicle, ready to charge devices.

5. OPERATING INSTRUCTIONS

Once the inverter is properly set up, you can begin powering and charging your devices.

1. **Check Device Compatibility:** Before connecting, verify that your device's power requirement (in Watts) is within the inverter's 200W limit.
2. **Connect Devices:**
 - For AC-powered devices, plug them into the universal AC outlet.
 - For USB-powered devices, connect them to the appropriate USB-C (65W PD, 30W QC3.0) or USB-A (18W QC3.0) ports.
3. **Monitor Display:** The LCD screen will show the input voltage. If the voltage drops too low (e.g., below 10.5V),

the inverter may shut down to protect your car battery.

4. **Disconnect After Use:** When you are finished, disconnect all devices and then unplug the inverter from the cigarette lighter socket.

Certificato ETL con protezione affidabile e sicura



200W

- Protezione da sovratensione
- Protezione da sottotensione
- Protezione da cortocircuito
- Protezione da sovraccarico
- Ventole di raffreddamento
- Protezione da surriscaldamento

The inverter simultaneously charging multiple devices.

Universal Compatibility:

The inverter supports a wide range of devices, including:

- Laptops (e.g., MacBook Pro)
- Smartphones and Tablets
- Gaming Devices (e.g., Nintendo Switch, PS5)
- Small Medical Machines (e.g., CPAP machine, Nebulizer)
- Car Accessories (e.g., Air Compressor, Small Fan, Bluetooth Speaker, Wireless Earbuds)

Compatibilità Universale

Per laptop



Macbook Pro



Laptop

Per telefoni e tablet



Telefono



Tablet

Per dispositivi di gioco



Switch



PS5

Per macchine mediche



Macchina CPAP



Nebulizzatore per l'asma

Per accessori auto



Compressore d'aria



Ventola piccola



Altoparlante Bluetooth



Cuffie wireless



The inverter offers broad compatibility for various electronic devices.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Regularly check that the cooling fan and air vents are free from dust and debris. Blocked vents can lead to overheating.
- **Storage:** Store the inverter in a cool, dry place when not in use, away from extreme temperatures and direct sunlight.
- **Cable Inspection:** Inspect the power cable and plug for any signs of damage before each use. Do not use if damaged.



VENTOLA DI RAFFREDDAMENTO INTELLIGENTE

- Elimina il calore prodotto dai generatori alimentati e funziona più velocemente quando fa più caldo e produce un rumore estremamente basso
- Il foro a 4 lati può ridurre meglio la temperatura del prodotto e dissipare bene il calore

Incorporato Ventilatore 

The intelligent cooling fan helps maintain optimal operating temperature.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not powering on / No output	<ul style="list-style-type: none"> • Loose connection • Vehicle battery low • Blown fuse in cigarette lighter • Inverter fault 	<ul style="list-style-type: none"> • Ensure the cigarette lighter plug is fully inserted. • Check vehicle battery voltage (should be above 12V). • Inspect and replace the fuse in your vehicle's cigarette lighter socket if necessary. • Contact customer support if the issue persists.
Inverter shuts down automatically (Protection mode)	<ul style="list-style-type: none"> • Overload (total power > 200W) • Overheating (poor ventilation) • Input overvoltage/undervoltage • Short circuit in connected device 	<ul style="list-style-type: none"> • Reduce the total power of connected devices. • Ensure vents are clear and the inverter is in a well-ventilated area. • Check vehicle battery voltage. • Disconnect all devices and reconnect one by one to identify faulty device.

Problem	Possible Cause	Solution
Connected device not charging or working	<ul style="list-style-type: none"> • Device power too high • Device incompatibility • Faulty cable 	<ul style="list-style-type: none"> • Verify device power consumption is within 200W. • Some sensitive electronics may not work with modified sine wave inverters. • Try a different charging cable.

If the problem persists after attempting these solutions, please contact BESTEK customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	BESTEK
Model Name	MRI2013EU
Power in Watts	200 Watts
Peak Power	200 Watts
Input Voltage	12 Volts (DC)
Output Voltage	240 Volts (AC)
Output Waveform	Modified Sine Wave
Frequency	50 Hz
AC Outlets	1 (Universal EU)
USB-C Ports	2 (65W PD, 30W QC3.0)
USB-A Ports	2 (18W QC3.0)
Total USB Power	131W
Power Source	Cigarette Lighter Socket
Display Type	LCD
Dimensions (L x W x H)	8L x 3.3W x 12.5H cm
Weight	300 Grams
Safety Certifications	CE, ETL Listed
Recommended Uses	Charging electronic devices, camping, mobile office use

9. WARRANTY AND SUPPORT

BESTEK stands behind the quality of its products.

- **Warranty:** This product comes with an 18-month product replacement warranty.
- **Return Policy:** BESTEK offers a 60-day refund policy for your purchase.
- **Customer Support:** Friendly technical support and customer service are available 24/7. For assistance, please visit the official BESTEK store or contact their support channels.

For more information or to contact support, please visit the [BESTEK Official Store](#).