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› BESTEK 75W Power Inverter DC 12V to 110V AC Car Inverter User Manual

BESTEK FBA_MRI711C-MX

BESTEK 75W Power Inverter User Manual

Model: FBA_MRI711C-MX

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your BESTEK 75W Power Inverter. This device converts 12V DC power from your vehicle's cigarette lighter socket into 110V AC power, suitable for various electronic devices. It also features dual USB charging ports for convenience.



Figure 1: BESTEK 75W Power Inverter

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the power inverter.

- This product is designed for 12V DC vehicle power systems only. Do not use with 24V DC systems or in aircraft.
- The inverter may become warm during operation. Avoid placing it in direct sunlight or near heat-sensitive materials to prevent overheating. Ensure adequate ventilation around the unit.
- Do not use the inverter to power high-wattage electrical devices such as hair dryers or electric heaters, as this may overload the unit and blow a fuse. Refer to the specifications for maximum wattage.
- Keep the inverter away from water, moisture, and flammable materials.
- Do not disassemble or modify the inverter. Servicing should only be performed by qualified personnel.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x BESTEK 75W Power Inverter
- 1 x User Manual

4. PRODUCT FEATURES

- Provides 75 watts continuous DC to AC power and 200 watts of peak power.
- Equipped with 1 AC outlet and 3.1A dual USB charging ports.
- Designed for direct plug-in to any 12V cigarette lighter socket.
- Features a pivoting head for easy adjustment.
- Built-in cooling fan and auto-shutdown mechanisms protect devices and the car from overheating, overloading, low load, short circuit, low voltage, and over voltage.



Figure 2: Inverter showing AC outlet and USB ports

5. SETUP

1. Ensure your vehicle's engine is running or the ignition is in the accessory position to provide power to the cigarette lighter socket.
2. Insert the inverter's cigarette lighter plug firmly into your vehicle's 12V cigarette lighter socket.
3. Adjust the pivoting head of the inverter to a comfortable and secure position.
4. The LED indicator on the inverter will illuminate green, indicating it is powered on and ready for use.

Rotatable Cigarette Lighter Plug

Flexible to use with 90 degree rotation angle



Figure 3: Rotatable cigarette lighter plug for flexible positioning

6. OPERATING INSTRUCTIONS

6.1 Using the AC Outlet

1. Plug your electronic device (e.g., laptop charger) into the 110V AC outlet on the inverter.
2. Ensure the device's power consumption does not exceed 75W continuous power or 200W peak power.

6.2 Using the USB Charging Ports

1. Connect your USB-powered devices (e.g., smartphones, tablets) to the 3.1A dual USB charging ports.
2. For optimal charging of devices like iPads, use the 2.1A USB port and leave the other USB port free.

Smart USB Charging

3.1A dual USB ports charge devices at full speed



Figure 4: Smart USB charging ports in use

High Power Conversion

92% high power conversion efficiency to charge faster



Figure 5: High power conversion efficiency for faster charging

Compatible Devices



Figure 6: Examples of compatible devices

7. MAINTENANCE

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

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Inverter not powering on (no green LED)	Loose connection; vehicle's cigarette lighter socket not providing power; vehicle battery low.	Ensure the plug is fully inserted. Check vehicle's fuse for the cigarette lighter. Start vehicle engine to ensure sufficient battery voltage.
Device not charging/powering	Device power consumption too high; faulty device cable; inverter in protection mode (red LED).	Verify device wattage is within inverter limits (75W continuous). Try a different cable. Disconnect and reconnect the inverter to reset protection mode.
Inverter gets warm/hot	Normal operation; insufficient ventilation; prolonged high-power use.	Ensure vents are clear. Reduce load if possible. This is normal for electronics under load. If excessively hot, disconnect and allow to cool.

Isolation Voltage Protection

Perfect protection for your devices

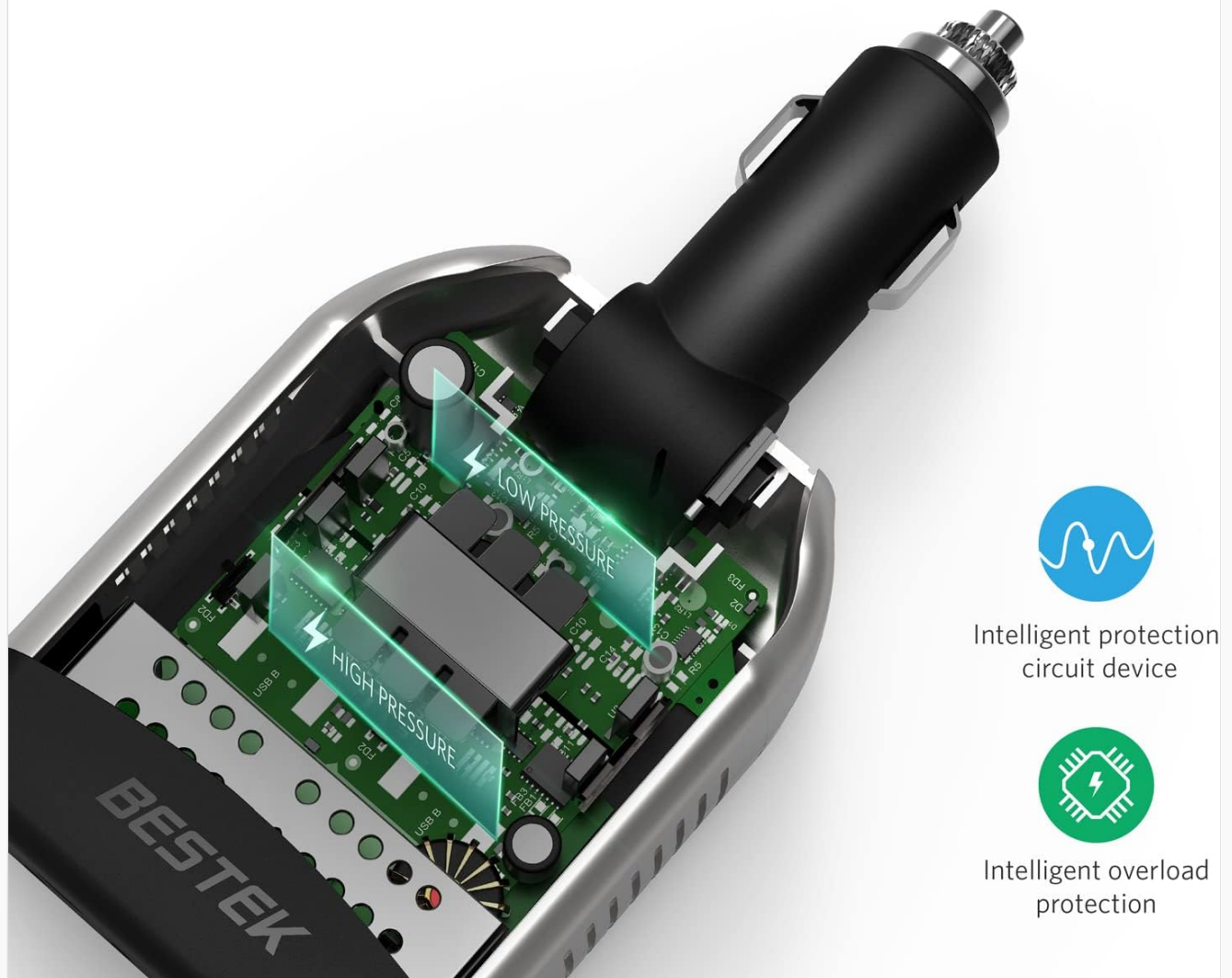


Figure 7: Inverter's internal protection circuit device

9. SPECIFICATIONS

Feature	Detail
Rated Power	75W Continuous
Max Power	100W
Peak Power	200W
Input Voltage	DC 12V
Output Voltage	AC 110V-120V
USB Port Output	DC 5V, 3.1A total (one 1A, one 2.1A)
Indicator	Green (Operation), Red (Shutdown)
Over Voltage Shutdown	DC 15V-16V
Low Voltage Shutdown	DC 10V-11V
Electrical Output Waveform	Modified Sine Wave
Dimensions (L x W x H)	5.5" x 2.4" x 1.6" (143mm x 63mm x 40mm)
Item Weight	5.76 ounces
Model Number	FBA_MRI711C-MX

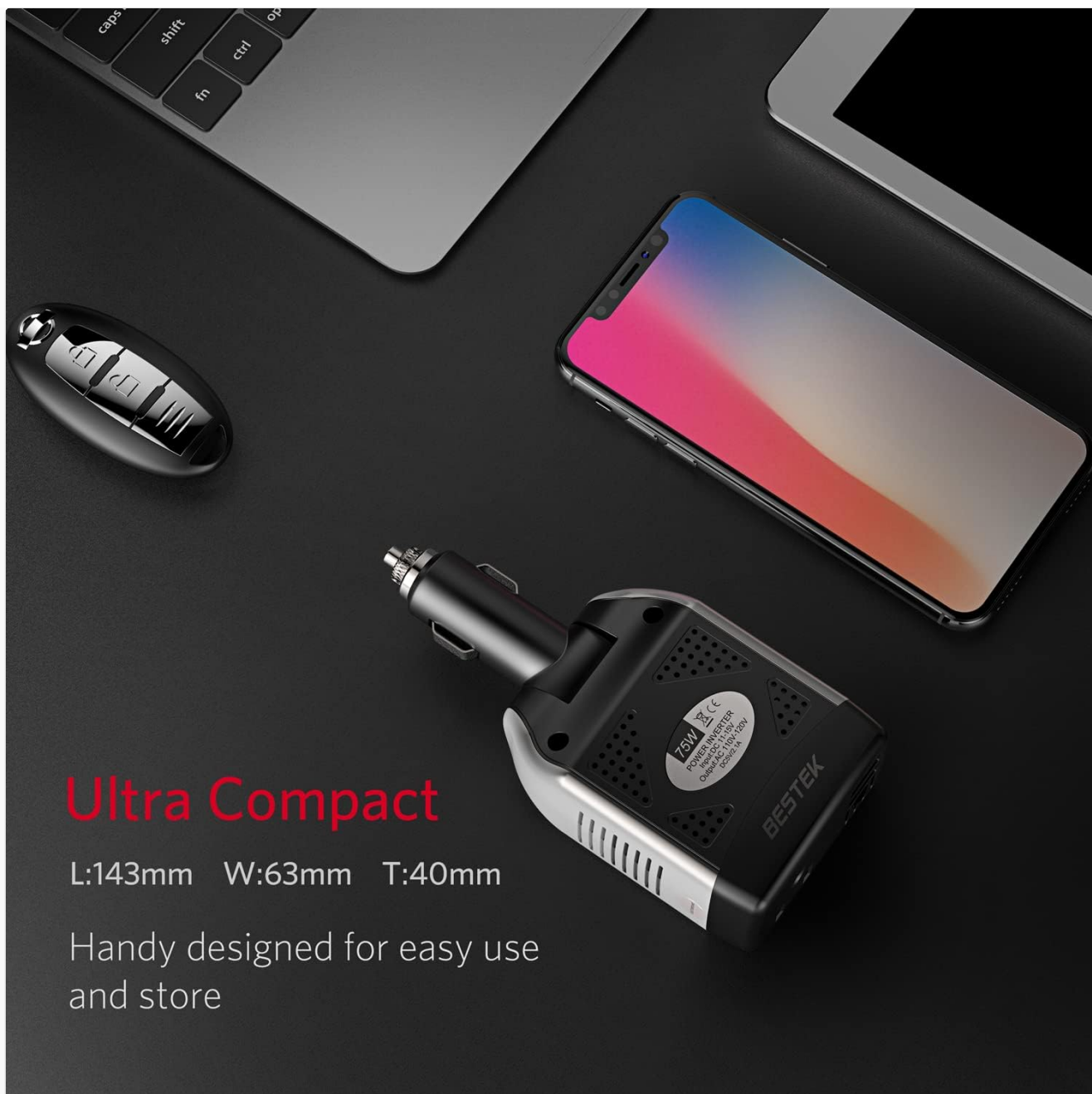


Figure 8: Compact design and dimensions of the inverter

10. WARRANTY AND SUPPORT

10.1 Warranty Information

This BESTEK product comes with an 18-month warranty. For details regarding warranty claims, please refer to the official BESTEK website or contact customer support.

Additionally, a 30-day return policy is typically offered for this product.

10.2 Customer Support

For any questions, technical assistance, or support needs, please contact BESTEK customer service. Refer to the product packaging or the official BESTEK website for the most current contact information.

BESTEK is committed to providing friendly and easy-to-reach support for all users.

