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FOVAL MT-MX 150W-3

FOVAL 150W Car Power Inverter 12V DC to 110V AC Converter User Manual

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your FOVAL 150W Car Power Inverter. This device converts 12V DC power from your vehicle's cigarette lighter outlet to 110V AC power, along with providing dual USB charging ports. It is designed for charging various electronic devices and powering small appliances up to 150 watts.



Image: The FOVAL 150W Car Power Inverter, highlighting its 12V DC input and 110V AC and 5V/3.1A USB outputs.

PRODUCT FEATURES

- **150W Continuous Power:** Provides 150 Watts of continuous 12V DC to 110V AC power output.
- **Multiple Charging Ports:** Equipped with two USB ports (Max 3.1A total output) and one AC outlet.
- **Compact Design:** Credit card-sized (3.2 x 2.5 x 1.5 inches) for easy storage and portability, ideal for road trips and outdoor activities.
- **Multi-Protection System:** Features a built-in fuse and protection against overheating, under/over voltage charging, short-circuiting, overloads, and overcharging.
- **Silent Operation:** Integrated cooling fan operates silently to reduce heat and prevent short-circuits.
- **Durable Construction:** Made with a robust aluminum alloy body for enhanced protection against drops and bumps.



Image: A detailed view of the inverter, highlighting its cigarette lighter plug, USB ports, AC socket, LED power indicator, cooling fan, and aluminum alloy body.

SETUP INSTRUCTIONS

- Vehicle Compatibility:** Ensure your vehicle has a 12V DC cigarette lighter socket.
- Insert into Socket:** Firmly insert the inverter's cigarette lighter plug into your vehicle's 12V DC outlet.
- Power Indicator:** The LED power indicator on the inverter will illuminate, typically turning green when ready for use.
- Device Connection:** Once the indicator is green, you can connect your devices to the AC outlet or USB ports.

FOVAL Power Inverter 12V to 110V

Converter input DC 12V to 110V AC



Image: The inverter connected and actively charging a laptop, tablet, and smartphone in a vehicle interior.

OPERATING INSTRUCTIONS

- AC Outlet Usage:** Plug any standard 110V AC device (up to 150W) into the AC outlet. This is suitable for laptops, small electronics, and other low-power appliances.
- USB Port Usage:** Connect your USB-powered devices (smartphones, tablets, etc.) to the dual USB ports. The total output for both USB ports is 3.1A.
- Power Limitations:** Do not exceed the maximum continuous power output of 150 watts. Exceeding this limit can trigger safety protections and potentially damage the inverter or your devices.
- Cooling Fan:** The integrated cooling fan will activate automatically when necessary to maintain optimal operating temperature. Its operation is designed to be quiet.



Compatibility charging electronic devices and powering small appliances within 150w

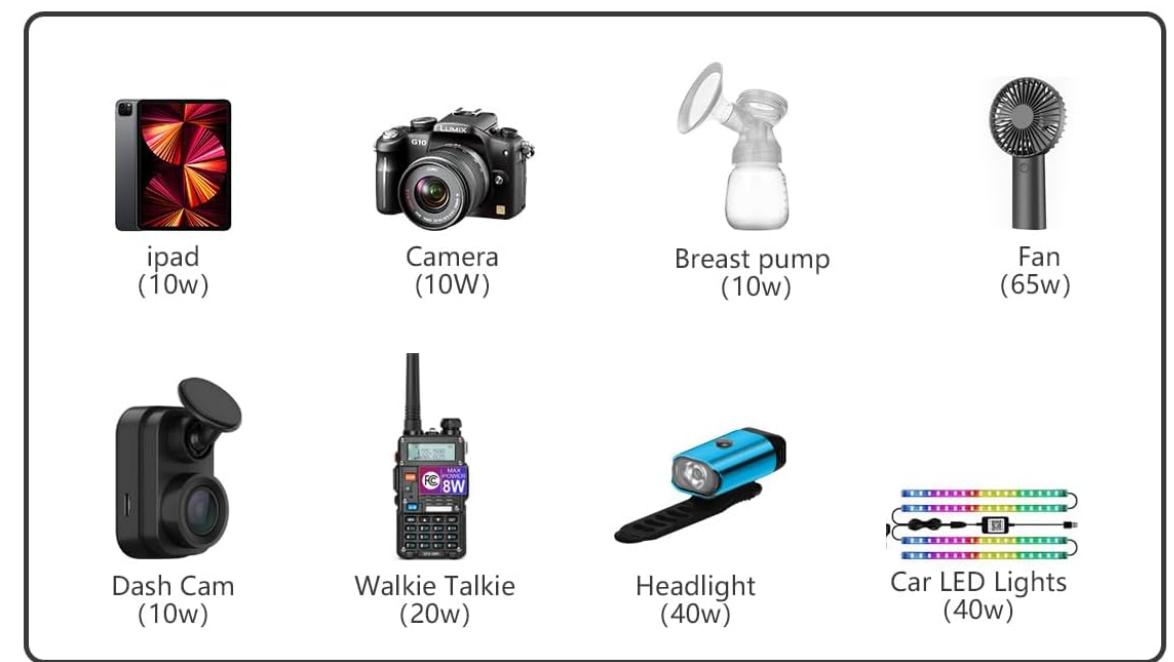


Image: A compatibility chart illustrating various devices (e.g., iPad, camera, breast pump, fan) and their typical power consumption, all within the 150W limit.

SAFETY INFORMATION

The FOVAL 150W Car Power Inverter includes multiple safety features to protect both the device and your electronics:

- **Built-in Fuse:** Protects against power surges and overcurrents.
- **Overheating Protection:** Automatically shuts down if the internal temperature exceeds safe limits.
- **Under/Over Voltage Charging Protection:** Safeguards against incorrect voltage input from the vehicle.
- **Short Circuiting Protection:** Prevents damage from electrical shorts.
- **Overload Protection:** Activates if connected devices draw more than 150W continuous power (with

a peak power of 300W and overload protection at 170W \pm 15W).

- **Overcharging Protection:** Ensures devices are not damaged by excessive charging.

Always ensure proper ventilation around the inverter during use to prevent heat buildup.



Image: Visual representation of the inverter's strong loading capacity and multi-protection features.

MAINTENANCE

- **Cleaning:** Regularly wipe the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and obstructions.
- **Storage:** Store the inverter in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Inspection:** Periodically check the power cable and plug for any signs of damage. Do not use if damaged.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inverter not powering on / No green light	Loose connection; vehicle's 12V outlet not providing power; vehicle battery low.	Ensure the inverter plug is firmly seated. Check vehicle's fuse for the cigarette lighter. Start the vehicle to ensure sufficient battery voltage.
Connected device not charging/working	Device power consumption exceeds 150W; inverter in protection mode (overload, overheating).	Verify the device's wattage. Disconnect the device, wait a few minutes, and reconnect. Reduce the load if multiple devices are connected.

Problem	Possible Cause	Solution
Inverter gets warm during use	Normal operation, especially under load; insufficient ventilation.	Ensure the inverter has adequate airflow around it. The internal fan will help dissipate heat. If it becomes excessively hot, disconnect and allow to cool.
Fan is noisy or constantly running	High load on the inverter; fan or vents obstructed.	Reduce the load on the inverter. Check for and clear any obstructions from the fan and vents. The fan is designed for quiet operation, but may be more audible under heavy load.

SPECIFICATIONS

- **Model Name:** 150W Car Power Inverter
- **Model Number:** MT-MX 150W-3
- **Input Voltage:** 12V DC
- **Output Voltage:** 110V AC
- **Continuous Power:** 150 Watts
- **Peak Power:** 300 Watts
- **Overload Protection:** 170W ± 15W
- **USB Output:** Dual USB 5V, 3.1A (total)
- **Product Dimensions:** 3.7 x 2.5 x 1.5 inches
- **Item Weight:** 8 ounces
- **Manufacturer:** FOVAL

Size similar to credit card

Space-saving & easy storage for road trips

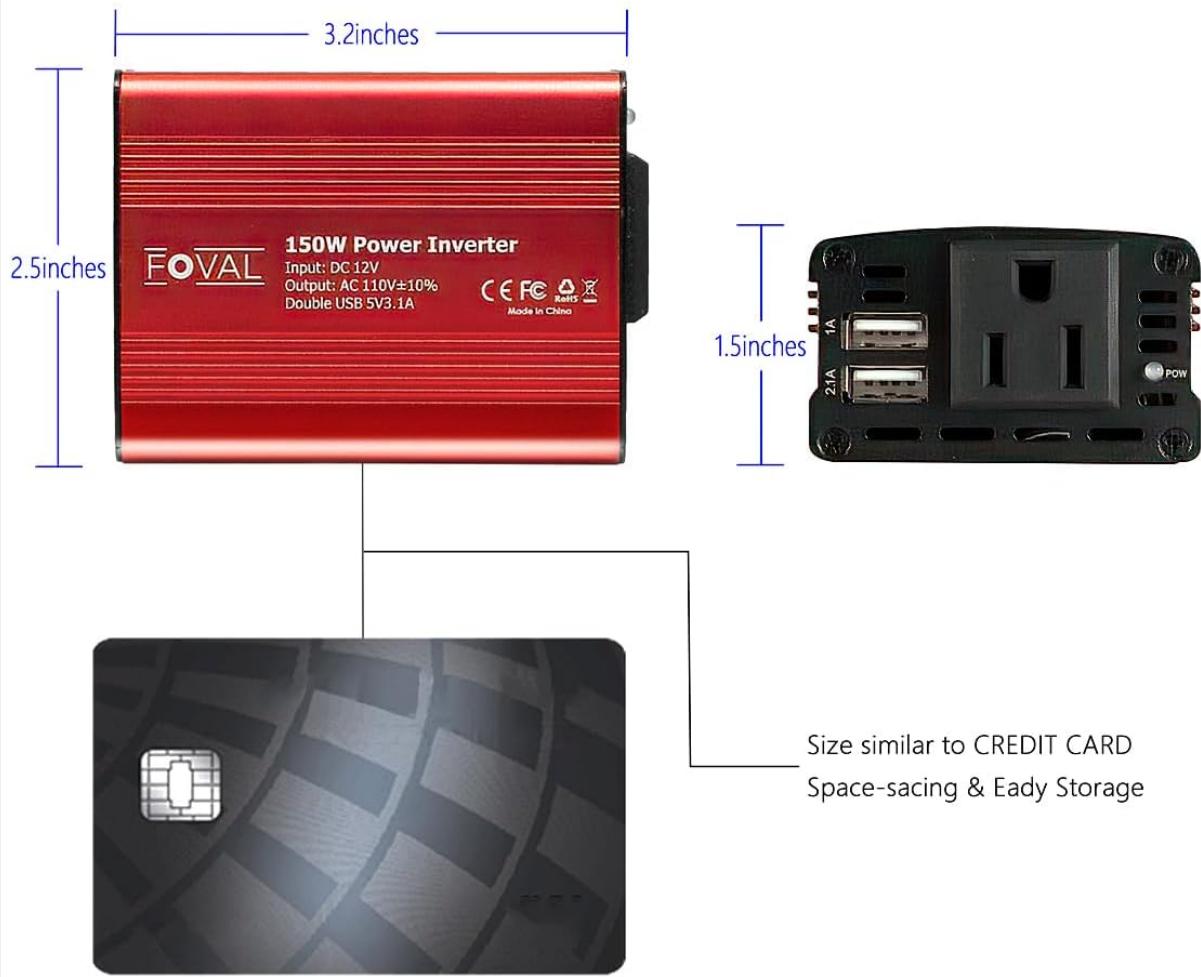


Image: The compact size of the inverter, shown next to a credit card for scale, with its dimensions.

WHAT'S IN THE BOX

- 150W Car Power Inverter 12V DC to 110V AC Converter with 3.1A Dual USB Car Charger

WARRANTY AND SUPPORT

Specific warranty details are not provided in the available product information. For warranty claims or technical support, please contact FOVAL customer service directly through their official channels or the retailer where the product was purchased.

PRODUCT VIDEOS

No official product videos from the seller were found in the provided data.

