

PiSFAU MT-MX150

PiSFAU 1000W Car Power Inverter MT-MX150 User Manual

Model: MT-MX150

1. INTRODUCTION

Thank you for choosing the PiSFAU 1000W Car Power Inverter. This device converts 12V DC power from your vehicle's battery into 110V AC household power, allowing you to operate various electronic devices on the go. It is designed for convenience and reliability during travel, camping, or outdoor work.

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.

- **Do not** open the inverter casing. There are no user-serviceable parts inside.
- **Do not** expose the inverter to water, rain, or snow.
- **Do not** operate the inverter near flammable materials or in environments where flammable fumes or gases are present.
- Ensure proper ventilation around the inverter. **Do not** block the cooling fan or vents.
- Connect the inverter only to a 12V DC power source. Connecting to a 24V DC source or higher will damage the unit.
- **Do not** exceed the inverter's rated continuous output power (400 Watts). Overloading can cause damage to the inverter and connected devices.
- Always disconnect the inverter from the power source when not in use or before cleaning.
- Keep out of reach of children.

3. PRODUCT FEATURES

- **Power Output:** 400 Watts continuous, 1000 Watts peak.
- **Input Voltage:** DC 12V.
- **AC Output Voltage:** AC 110V.
- **USB Ports:** Two 5V/3.1A USB ports for charging mobile devices.

- **AC Socket:** One 110V AC outlet for powering small appliances.
- **Compact Design:** Small and lightweight, measuring 3.2 x 2.5 x 1.5 inches and weighing 8 ounces.
- **Intelligent Cooling Fan:** Automatically adjusts speed to dissipate heat, ensuring optimal performance and longevity.
- **Advanced Safety Protection:** Built-in smart chip and fuse protect against overheating, undervoltage, overvoltage, overload, and short circuits.
- **Durable Construction:** Features a robust metal shell for enhanced protection against impacts and fire.

4. PACKAGE CONTENTS

- PiSFAU 1000W Car Power Inverter (Model: MT-MX150)
- 16-inch DC Cigarette Lighter Cable
- User Manual (this document)

5. SPECIFICATIONS

Parameter	Value
Model	MT-MX150
Input Voltage	DC 12V
AC Output Voltage	AC 110V
Continuous Power	400 Watts
Peak Power	1000 Watts
USB Output	DC 5V/3.1A (2 ports)
Dimensions (L x W x H)	3.2 x 2.5 x 1.5 inches
Weight	8 ounces (227 g)
Waveform	Modified Sine Wave

6. SETUP AND INSTALLATION

1. **Vehicle Compatibility:** Ensure your vehicle provides a 12V DC power outlet (cigarette lighter socket). This inverter is not compatible with 24V systems.
2. **Placement:** Place the inverter in a stable, well-ventilated area away from direct sunlight, heat sources, and moisture. Ensure the cooling fan and vents are unobstructed.
3. **Connection:** Insert the 16-inch DC cigarette lighter cable firmly into your vehicle's 12V accessory socket. Ensure a secure connection.
4. **Power On:** The inverter will typically power on automatically once connected. Some vehicles may require the ignition to be in the "ACC" or "ON" position for the cigarette lighter socket to be active.



Image 1: The PiSFAU Car Power Inverter connected to a vehicle's 12V cigarette lighter socket, showing its compact size and available ports.

7. OPERATING INSTRUCTIONS

1. **Connect Devices:** Once the inverter is powered on, plug your AC-powered devices into the 110V AC socket and/or your USB-powered devices into the 5V/3.1A USB ports.
2. **Power Consumption:** Ensure the total power consumption of all connected devices does not exceed the inverter's continuous power rating of 400 Watts. Exceeding this limit can trigger the inverter's safety shutdown.
3. **Monitoring:** The inverter features an intelligent cooling fan that will activate and adjust its speed based on the internal temperature to prevent overheating.
4. **Disconnection:** When finished, disconnect your devices from the inverter, then unplug the inverter from the vehicle's cigarette lighter socket.

Note: This inverter produces a modified sine wave output. While suitable for most electronic devices, some sensitive electronics or devices with AC motors may require a pure sine wave inverter for optimal performance.

8. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the inverter. Do not use liquid cleaners or solvents.
- **Ventilation:** Regularly check that the cooling fan and vents are free from dust and debris to ensure proper airflow.
- **Storage:** Store the inverter in a cool, dry place when not in use.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inverter not powering on.	<ul style="list-style-type: none">Loose connection to vehicle socket.Vehicle socket not active (ignition off).Vehicle battery voltage too low.Internal fuse blown.	<ul style="list-style-type: none">Ensure the cigarette lighter plug is fully inserted.Turn vehicle ignition to "ACC" or "ON".Start the vehicle engine to recharge the battery.Contact customer support if the unit is still not functioning.
Inverter shuts down, red light on.	<ul style="list-style-type: none">Overload (total power consumption too high).Overheating (blocked vents, high ambient temperature).Input voltage too high or too low.Short circuit in connected device or cable.	<ul style="list-style-type: none">Disconnect some devices to reduce load.Ensure proper ventilation; allow inverter to cool down.Check vehicle battery voltage.Inspect connected devices and cables for damage.
No output from USB ports or AC socket.	<ul style="list-style-type: none">Inverter not powered on.Faulty device or cable.	<ul style="list-style-type: none">Refer to "Inverter not powering on" solutions.Test with a different device or cable.

10. WARRANTY AND SUPPORT

The PiSFAU 1000W Car Power Inverter (Model: MT-MX150) comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact PiSFAU customer service through the retailer where the product was purchased or visit the official PiSFAU website for contact information.

Please retain your proof of purchase for warranty validation.