

## PowerDrive PWD750

# PowerDrive PWD750 750 Watt Power Inverter Instruction Manual

Model: PWD750

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your PowerDrive PWD750 750 Watt Power Inverter. This device converts 12V DC power from your vehicle's battery into 110V AC household power, along with USB and USB-C charging capabilities. Please read these instructions thoroughly before installation and use to ensure proper function and safety.

*An overview video showcasing the PowerDrive PWD750 750 Watt Power Inverter from various angles, highlighting its design and port layout.*

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- Read all instructions before operating the inverter.
- Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- Keep the inverter away from flammable materials, gases, or liquids.
- Connect the inverter only to a 12V DC power source. Do not connect to 24V DC or AC power.
- Always connect the cables with correct polarity: red to positive (+), black to negative (-).
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Use the inverter in a dry environment. Avoid exposure to water or moisture.
- Do not exceed the inverter's rated continuous power output (750 Watts) or surge power (1500 Watts).
- Disconnect the inverter from the power source when not in use.

## 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- PowerDrive PWD750 750 Watt Power Inverter
- Battery Connection Cables (red and black, approximately 36 inches)
- Instruction Manual



*The PowerDrive PWD750 inverter displayed alongside its included red and black battery connection cables, ready for installation.*

#### 4. PRODUCT FEATURES

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- **Continuous Power:** 750 watts for running AC devices and appliances.
- **Dual USB Ports:** One standard USB 2.4 AMP port and one USB-C 3.0 AMP port for charging smartphones and tablets.
- **Dual AC Outlets:** Two 3-prong AC outlets to convert 12V DC power to 110V AC.
- **Cable Kit:** Includes 36-inch cables for direct connection to your vehicle battery.
- **Safety Protections:** Short circuit, temperature overload, and low battery shut-off.
- **LED Indicator:** Provides power status feedback.
- **Cooling System:** Integrated cooling fan and ventilation openings to prevent overheating.
- **Durable Housing:** Constructed with ABS PVC composite for protection against abrasion and damage.



## DUAL PORTS: STANDARD 2.4A USB and 3.0A USB-C® plus 3-PRONG AC OUTLETS

*Close-up image highlighting the dual USB ports (2.4A and 3.0A USB-C) and two 3-prong AC outlets on the PowerDrive PWD750 inverter.*

## 5. SETUP AND INSTALLATION

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### 5.1 Placement Considerations

- Place the inverter on a flat, stable surface.
- Ensure the inverter is in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Maintain at least 2 inches of clear space around the inverter for proper airflow.
- Keep the inverter away from any flammable materials.

### 5.2 Connecting to a 12V DC Power Source

1. Ensure the inverter's power switch is in the OFF position.
2. Connect the **red** positive (+) cable to the **red** positive (+) terminal on the inverter. Tighten securely.
3. Connect the **black** negative (-) cable to the **black** negative (-) terminal on the inverter. Tighten securely.
4. Connect the other end of the **red** positive (+) cable to the **positive (+) terminal** of your vehicle's 12V battery.
5. Connect the other end of the **black** negative (-) cable to the **negative (-) terminal** of your vehicle's 12V battery.
6. Verify all connections are tight and secure to prevent loose connections and sparking.



The PowerDrive PWD750 Power Inverter connected to a vehicle's 12V battery, demonstrating a typical installation scenario under the hood.



An illustration of the PowerDrive PWD750 inverter with its physical dimensions (8" x 6.25" x 3") and the length of the 36-inch battery cables.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Powering On the Inverter

1. After ensuring all connections are secure, turn the inverter's power switch to the ON position.
2. The LED indicator light will illuminate, indicating the inverter is receiving power and ready for use.

### 6.2 Connecting Devices

- **AC Devices:** Plug your 110V AC appliances directly into the 3-prong AC outlets. Ensure the total wattage of connected devices does not exceed 750 watts.
- **USB Devices:** Plug your USB-powered devices into the 2.4A USB port or the 3.0A USB-C port.

### 6.3 Powering Off the Inverter

1. Disconnect all devices from the inverter.
2. Turn the inverter's power switch to the OFF position.
3. For long-term storage, disconnect the inverter from the vehicle battery.

## 7. MAINTENANCE

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### 7.1 Cleaning

- Periodically clean the exterior of the inverter with a dry, soft cloth.

- Ensure ventilation openings are free from dust and debris to maintain proper cooling.



Rear view of the PowerDrive PWD750 inverter, showing the integrated cooling fan, ventilation openings, and the positive and negative battery terminals.

## 7.2 Fuse Replacement

The PWD750 inverter uses three 35A replaceable ATC fuses. If the inverter stops functioning and troubleshooting steps do not resolve the issue, the fuses may need replacement. Consult a qualified technician for fuse replacement.

## 8. TROUBLESHOOTING

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If the inverter is not operating correctly, refer to the following common issues and solutions:

- **No Power Output / Inverter Not Turning On:**
  - Check battery connections for tightness and correct polarity.
  - Ensure the vehicle battery voltage is within the operating range (12V DC).
  - Verify the inverter's power switch is in the ON position.
  - Check the internal fuses (refer to Maintenance section).
- **Overload Shutdown:**
  - The inverter will shut down if the connected load exceeds 750 watts.
  - Disconnect some devices to reduce the total wattage.
  - Restart the inverter.

- **Over-Temperature Shutdown:**

- The inverter will shut down if it overheats.
- Ensure the inverter is in a well-ventilated area and its cooling fan/vents are not blocked.
- Allow the inverter to cool down before restarting.

- **Low Battery Shutdown:**

- The inverter will shut down if the input voltage drops below 10.5V DC to protect your vehicle battery.
- Recharge your vehicle battery or start the vehicle engine to provide sufficient voltage.

- **Power Fault LED Indicator:**

- If the LED indicates a fault, it signifies protection against overload, over temperature, high/low voltage, or short circuit. Address the underlying issue as described above.

## 9. SPECIFICATIONS

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Side view of the PowerDrive PWD750 750W Power Inverter retail packaging, displaying a comprehensive list of technical specifications.

Feature	Specification
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Feature	Specification
Model	PWD750
Input Voltage	12V DC
Output Voltage	115V AC
Output Frequency	58-62Hz
Output Waveform	Modified Sine Wave
Continuous Power	750 Watts
Surge Power	1500 Watts
Efficiency	85%
No Load Draw	<0.4A
Low Battery Shutdown	10.5 +/- 0.3V DC
USB Output Port	2.4A
USB-C Output Port	3.0A
Total USB Output	4.9A
AC Output Sockets	2 North American 3-prong
Internal Fuses	3 x 35A replaceable ATC fuses
Operating Temperature	14°F to 104°F (-10°C to 40°C)
Battery Low Alarm	Yes
Power Cable Length	36 inches
Dimensions (L x W x H)	8" x 6.25" x 3"
Net Weight	2.2 lbs.
Power Fault LED Indicator	Indicates protection against overload, over temperature, high/low voltage, short circuit.

*Specifications are subject to change without notice.*

## 10. WARRANTY AND SUPPORT

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### 10.1 Limited Warranty

This PowerDrive PWD750 Power Inverter comes with a **1-Year Limited Warranty**. For detailed warranty information, including terms and conditions, please visit the official website:

[www.roadprobrands.com](http://www.roadprobrands.com)

### 10.2 Customer Support

For technical assistance, troubleshooting, or any questions regarding your PowerDrive PWD750 Power Inverter, please contact RoadPro - a DAS company, through their official support channels available on

their website.



Back view of the PowerDrive PWD750 750W Power Inverter retail packaging, detailing key features, specifications, and warranty information.

