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COBRA CPI1500W

Cobra PRO 1500W Power Inverter Instruction Manual

Model: CPI1500W

Brand: COBRA

1. INTRODUCTION

The Cobra PRO 1500W Professional Grade Power Inverter converts your vehicle's 12V DC battery power into usable 120V AC household current. This device is designed for powering various electronics and appliances on the go, making it suitable for professional drivers, campers, RV enthusiasts, or as a backup power source during outages. It provides 1500 Watts of continuous power and up to 3000 Watts of peak power.

Key features include four Grounded AC Outlets, two Fast Charge USB ports (USB-A and USB-C), and compatibility with a remote controller for convenient monitoring and device charging from within your vehicle. The inverter also incorporates Pentagon Protection Safety, offering five levels of protection against common electrical issues.

2. WHAT'S IN THE BOX

Upon unpacking your Cobra PRO 1500W Power Inverter, ensure all the following items are present:

- Cobra PRO 1500W Power Inverter (Model CPI1500W)
- Two 48-inch #4 AWG Power Cables (one red, one black)
- Terminal Protector Boots
- Quick Start Guide



Power you can trust

With 1500 Watts of Modified Sine Wave power, you'll be able to charge and power your electronics, devices, and appliances safely and reliably

Image: The Cobra PRO 1500W Power Inverter shown with its included accessories: two 48-inch #4 AWG power cables (red and black) and terminal protector boots. These components are essential for proper installation and safe operation.

3. PRODUCT OVERVIEW

The Cobra PRO 1500W Power Inverter features a robust design with multiple output options and an intuitive display for monitoring. Familiarize yourself with the various ports and indicators before operation.



4 GFCI Protected AC Outlets

Easily power up to 4 of your devices or medium appliances with grounded AC outlets for each



15W USB Fast Charge Ports

Quickly charge your smartphones, tablets, or other mobile devices from the convenient USB-A and USB-C ports



Pentagon Protection Safety & cETL Certified

Built-in protection for Over Temperature, Reverse Polarity, Over Voltage, Low Voltage Alarm, and Low Voltage Cutoff



Image: Close-up of the inverter's front panel, displaying four standard AC outlets, a digital display for input/output voltage and wattage, a power button, a remote port, and two fast-charge USB ports (USB-A and USB-C).



Image: A detailed graphic highlighting the key features of the Cobra PRO 1500W Power Inverter's front panel, including the four GFCI protected AC outlets, 15W USB Fast Charge Ports (USB-A and USB-C), and the digital display for input/output readings.

4. SETUP

Proper installation is crucial for the safe and efficient operation of your power inverter. The Cobra PRO 1500W is designed for direct connection to a 12V vehicle battery using the provided #4 AWG power cables.

Direct-to-Battery Connection:

1. Ensure your vehicle is turned off and the ignition key is removed.
2. Connect the red (#4 AWG) cable to the positive (+) terminal of the inverter and then to the positive (+) terminal of your vehicle's 12V battery.
3. Connect the black (#4 AWG) cable to the negative (-) terminal of the inverter and then to the negative (-) terminal of your vehicle's 12V battery.
4. Secure all connections tightly. Use the terminal protector boots to cover the battery terminals.
5. Mount the inverter in a well-ventilated area, away from direct sunlight, heat, or moisture. The inverter can be bolted to a flat surface using its integrated mounting brackets.

Important: For optimal performance and safety, always use the provided heavy-duty cables for direct battery connection. Avoid using lighter gauge wires or cigarette lighter adapters for high-wattage applications, as this can lead to overheating and damage.

PRO 1500W Power Inverter

Complete Package Contents Include:



Two 48" #4 AWG power cables



Terminal protector boots



PRO 1500W 12v Power Inverter

Image: The Cobra PRO 1500W Power Inverter is shown securely installed in the bed of a pickup truck, connected to the vehicle's battery. This setup allows for convenient access to power for various outdoor activities or work requirements.

5. OPERATING INSTRUCTIONS

Once properly installed, operating your Cobra PRO 1500W Power Inverter is straightforward.

Powering On/Off:

- Press the 'POWER' button on the inverter's front panel to turn the unit on. The digital display will illuminate.
- To turn off, press the 'POWER' button again.

Using AC Outlets:

- Plug your 120V AC devices directly into any of the four grounded AC outlets.
- Ensure the total wattage of all connected devices does not exceed 1500 Watts continuously or 3000 Watts peak.

Using USB Ports:

- Connect your USB-powered devices to the Fast Charge USB-A or USB-C ports for charging.
- These ports are ideal for smartphones, tablets, and other mobile devices.

Remote Control (Optional):

- If you have a compatible Cobra remote controller, connect it to the 'REMOTE' port on the inverter.
- The remote allows you to monitor and control the inverter from a convenient location inside your vehicle.



Ideal for All Electronics & Kitchen Appliances

Provide the power to work, play, or get away with larger electronics, devices, and appliances.



90% Efficient Modified Sine Wave

Highly efficient inverter, giving longer run times and extending battery life



1500 Watts Continuous / 3000 Watts Peak

Help safely power everything from electronics to entertainment devices to kitchen appliances



Image: The Cobra PRO 1500W Power Inverter is shown powering a portable fan at a campsite, demonstrating its utility for outdoor activities. The inverter is connected to a vehicle, providing convenient power for comfort.



Cobra Remote compatible

Monitor and charge devices with Fast Charge USB from anywhere inside your vehicle

*Remote On/Off Controller not included

Image: A close-up of the Cobra remote controller, featuring a digital display for AC output and DC input, a power button, and USB-A and USB-C fast charge ports. This remote provides convenient control and monitoring from a distance.

Video: This video introduces Cobra's range of power inverters, showcasing their features and applications. It highlights how these inverters provide reliable power for various needs, from powering tools to charging devices on the go.

6. SAFETY FEATURES (PENTAGON PROTECTION)

The Cobra PRO 1500W Power Inverter is equipped with Pentagon Protection Safety, a comprehensive system designed to protect both the inverter and your connected devices. This includes:

- **Over Temperature Protection:** Automatically shuts down the inverter if it overheats.
- **Reverse Polarity Protection:** Prevents damage if battery connections are reversed.
- **Over Voltage Protection:** Safeguards against excessive input voltage.
- **Low Voltage Alarm:** Alerts you when the battery voltage is getting low.
- **Low Voltage Cutoff:** Shuts down the inverter to prevent deep discharge of your vehicle's battery.

7. SPECIFICATIONS

Feature	Specification
Model Name	CPI1500W
Continuous Power	1500 Watts
Peak Power	3000 Watts
Input Voltage	12V DC
Output Voltage	120V AC
AC Outlets	4 GFCI Protected
USB Ports	2 Fast Charge (USB-A, USB-C)
Product Dimensions	9.84 x 8.35 x 3.46 inches
Item Weight	3.85 pounds
Manufacturer	Cobra Electronics

8. MAINTENANCE

To ensure the longevity and optimal performance of your Cobra PRO 1500W Power Inverter, follow these maintenance guidelines:

- Regular Cleaning:** Keep the inverter clean and free from dust and debris. Use a dry cloth to wipe down the exterior. Ensure ventilation openings are not blocked.
- Check Connections:** Periodically inspect all cable connections to the inverter and the battery. Ensure they are tight and free from corrosion. Loose connections can cause overheating and power loss.
- Storage:** When not in use for extended periods, disconnect the inverter from the battery and store it in a cool, dry place.
- Battery Health:** Maintain your vehicle's battery in good condition. A weak or poorly maintained battery can affect the inverter's performance and trigger low voltage warnings.

9. TROUBLESHOOTING

If you encounter issues with your Cobra PRO 1500W Power Inverter, refer to the following common troubleshooting steps:

- No Power Output:**

- Check if the inverter's power button is pressed and the unit is on.
- Verify that the battery connections are secure and correctly polarized (red to positive, black to negative).
- Ensure your vehicle's battery has sufficient charge. Low battery voltage will trigger a shutdown.
- Check for blown fuses in your vehicle's electrical system or within the inverter (if accessible and user-serviceable).

- **Overload Shutdown:**

- The inverter may shut down if the connected load exceeds its continuous or peak wattage rating. Disconnect some devices to reduce the load.
- Some appliances, especially those with motors (e.g., refrigerators, power tools), have high startup (surge) power requirements. Ensure the inverter's peak power rating can handle these surges.

- **Overheating:**

- If the inverter feels hot and shuts down, it may be overheating. Ensure it is in a well-ventilated area and its cooling fins are not obstructed.
- Reduce the load on the inverter to allow it to cool down.

- **Low Voltage Alarm/Shutdown:**

- This indicates your vehicle's battery voltage is too low. Start your vehicle's engine to recharge the battery.
- If the problem persists, have your vehicle's battery and charging system checked by a qualified technician.

For further assistance, please contact Cobra customer support.

10. WARRANTY AND SUPPORT

The Cobra PRO 1500W Power Inverter comes with a **2-Year Protection Plan**, ensuring peace of mind regarding your purchase. For warranty claims, technical support, or any product-related inquiries, please refer to the contact information provided in your Quick Start Guide or visit the official Cobra Electronics website.

Keep your purchase receipt as proof of purchase for warranty validation.