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ALEOPIX RT-XJ-500W

ALEOPIX 500W Car Power Inverter User Manual

Model: RT-XJ-500W | Brand: ALEOPIX

1. INTRODUCTION

The ALEOPIX 500W Car Power Inverter converts 12V DC power from your vehicle's battery into 110V/120V AC household power, along with USB and USB-C charging capabilities. This device is designed for powering various electronics and small appliances on the go, making it suitable for road trips, camping, and emergency backup power.



Image: The ALEOPIX 500W Car Power Inverter, shown connected to a vehicle's battery, ready to provide power.

2. WHAT'S IN THE BOX

Upon opening your ALEOPIX 500W Car Power Inverter package, you should find the following items:

- ALEOPIX 500W Inverter (1 unit)
- 50A Battery Cables (2 units - one red for positive, one black for negative)
- Cigarette Lighter Adapter (1 unit)
- User Manual (1 unit)

WHAT IS IN THE ALEOPIX INVERTER BOX?



Image: A visual representation of all components included in the ALEOPIX 500W Car Power Inverter package.

3. PRODUCT FEATURES AND COMPONENTS

The ALEOPIX 500W Inverter is equipped with multiple features for versatile power delivery:

- **Dual AC Outlets:** Provides 110V/120V AC power for standard household devices.
- **USB-A Port (18W):** For charging smartphones and other USB-powered devices.
- **USB-C Port (36W PD):** Offers fast charging for compatible laptops, tablets, and phones.
- **Digital LED Display:** Shows real-time battery voltage, output voltage, and wattage for easy monitoring.
- **Smart Cooling Fan:** Automatically activates to dissipate heat, ensuring optimal performance and longevity.
- **Durable Construction:** Features a high-quality aluminum alloy body for scratch and corrosion resistance.
- **Pure Copper Cables:** Includes 50A pure copper battery cables for efficient power transfer and reduced heat generation.



Image: Detailed view of the inverter's front panel, highlighting the LED display and various output ports.



Image: Illustration comparing the robust 50A pure copper battery cables with less efficient alternatives.

4. SETUP INSTRUCTIONS

Follow these steps to properly set up your ALEOPIX 500W Car Power Inverter:

1. **Safety First:** Ensure your vehicle is turned off and the inverter's power switch is in the "OFF" position before making any connections.

2. **Connect to Battery (Directly):**

- Attach the red (positive) battery cable to the positive (+) terminal of the inverter.
- Attach the black (negative) battery cable to the negative (-) terminal of the inverter.
- Connect the other end of the red cable to the positive (+) terminal of your vehicle's 12V battery.
- Connect the other end of the black cable to the negative (-) terminal of your vehicle's 12V battery.
- *Important:* Ensure connections are secure and correct polarity is observed to prevent damage to the inverter or vehicle. For permanent installations, consider adding an appropriate fuse on the positive line.

3. **Connect to Cigarette Lighter Socket (Low Power Use):**

- For lower power devices (typically up to 150-200W), you can use the included cigarette lighter adapter.
- Plug the cigarette lighter adapter into the inverter's DC input.
- Insert the adapter into your vehicle's 12V cigarette lighter socket.
- *Note:* The maximum power output via the cigarette lighter socket is limited by your vehicle's fuse for that socket. Do not exceed this limit.



Image: The inverter connected to a vehicle battery, demonstrating its application across different vehicle types.

For a visual guide on connecting the inverter and its capabilities, please watch the following video:

Your browser does not support the video tag.

Video: An overview of the ALEOPIX Car Power Inverter, demonstrating its features and connection methods. Note: This video may feature a 1000W model, but the connection principles apply to the 500W model.

5. OPERATING INSTRUCTIONS

Once the inverter is properly connected to a 12V power source:

1. **Power On:** Flip the ON/OFF switch on the inverter to the "ON" position. The LED display will illuminate, showing the input DC voltage, output AC voltage, and current wattage.
2. **Connect Devices:**
 - Plug your AC-powered devices into the 110V/120V AC outlets.
 - Connect your USB-powered devices to the 18W USB-A port or the 36W USB-C port for fast charging.
 - *Caution:* Do not exceed the inverter's continuous power rating of 500W. The peak power is 1000W for short bursts, but continuous operation above 500W can damage the unit.
3. **Monitor Display:** Regularly check the LED display for battery voltage and output wattage to ensure stable operation and prevent over-discharge of your vehicle's battery.
4. **Power Off:** When finished, turn off the inverter using the ON/OFF switch before disconnecting any devices or the inverter from the power source.

What Make ALEOPIX Inverters so Different?



ALEOPIX

- 50A Pure Copper Cables ✓
- 150W-200W Support ✓
- Rich Content & Clear LED Display ✓
- Intelligent Adjustment ✓
- Two Sockets ✓
- Fast Charging ✓
- Aluminum Alloy Shell, Durable & Resistant ✓

Cables

Cigarette Lighter

Display Screen

Cooling Fan

AC Socket

USB/USB-C Port

Body Material

Others

- 20A copper clad aluminum cables ✗
- Only supports 100W ✗
- LCD with simple black & white display ✗
- Does not work ✗
- Only one ✗
- Charging is very slow ✗
- Iron shell, easy to rust & deform ✗

Image: The inverter in use during a camping trip, providing power for various electronic devices.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ALEOPIX 500W Car Power Inverter, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure the cooling fan vents are free from dust and debris to maintain proper airflow. Do not use liquid cleaners.
- **Connections:** Regularly check all cable connections to ensure they are tight and free from corrosion. Loose connections can lead to power loss or overheating.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place away from direct sunlight and moisture. Disconnect it from the battery.
- **Battery Health:** Ensure your vehicle's battery is in good condition. A weak battery can affect the inverter's performance and potentially lead to premature shutdown.

7. TROUBLESHOOTING

If you encounter issues with your ALEOPIX 500W Car Power Inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output / Inverter not turning on	- Loose battery connections - Low vehicle battery voltage - Inverter's power switch is OFF - Blown fuse in vehicle (for cigarette lighter connection)	- Check and tighten all battery cable connections. - Charge vehicle battery or check its health. - Ensure the inverter's power switch is ON. - Check and replace the vehicle's cigarette lighter fuse if necessary.
Overload warning / Inverter shuts down	- Connected device exceeds 500W continuous power. - Short circuit in connected device.	- Disconnect high-power devices. Use devices within the 500W limit. - Check connected devices for faults.
Overheat warning / Inverter shuts down	- Poor ventilation around the inverter. - Blocked cooling fan vents. - Operating in high ambient temperatures.	- Ensure adequate space around the inverter for airflow. - Clean any dust or debris from the cooling fan and vents. - Allow the inverter to cool down before resuming operation.

8. SPECIFICATIONS

Feature	Detail
Model Name	RT-XJ-500W
Input Voltage	12 Volts DC
Output Voltage	110V/120V AC
Continuous Output Power	500 Watts
Peak Output Power	1000 Watts
Output Waveform	Modified Sine Wave
AC Outlets	2
USB-A Port	18W Quick Charge
USB-C Port	36W Power Delivery (PD)
Display Type	LED Digital Display
Dimensions (L x W x H)	6.37" x 4.64" x 2.16"
Item Weight	1.32 Pounds
Included Cables	50A Battery Cables, Cigarette Lighter Adapter

WHAT WILL YOUR GET FROM ALEOPIX?



PRODUCT SPECIFICATIONS

Power:	500W	AC Socket:	2
Peak Power:	1000W	USB Port:	18W
DC Input:	12V	USB-C Port:	36W
AC Output:	110V/120V	Waveform:	Modified Sine Wave
LED Screen:	Yes	Weight:	0.6kg/1.3lb

Image: Visual representation of the inverter's dimensions and a summary of its product specifications.

9. WARRANTY AND SUPPORT

ALEOPIX provides a **ONE-YEAR free warranty period** for this product. We are committed to protecting your rights and enhancing your user experience.

If you have any questions about the product, require technical assistance, or need any help from us, please feel free to contact our support department by email. Our professional technical support and after-sales service team is ready to assist you.

Thank you for choosing ALEOPIX!

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