

RoyPow C180

RoyPow 180W AC to DC Converter User Manual

Model: C180
Brand: RoyPow

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Support
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- Specifications

1. PRODUCT OVERVIEW

The RoyPow AC to DC Converter (Model C180) is a versatile power supply designed to convert standard 100V~120V AC household current to 12V DC power, enabling the use of most automotive electronic devices at home without requiring a car battery. This converter provides a reliable and convenient solution for powering various 12V car accessories. Key features include:

- **Emulates Automotive Batteries:** Allows powering devices with 11V/12V/13V/14V input voltage, mimicking car battery output at engine-unstart state.
- **Wide Compatibility:** 180W (Max 200W) output suitable for almost all 12V automotive electronics, such as air compressors, coffee makers, car refrigerators, and more.
- **Quiet and Low-Heat Operation:** Features a built-in silent fan for efficient heat dissipation, ensuring quiet and cool performance.
- **Multiple Safety Protections:** CE, FCC, and RoHS approved, with integrated protections against overcharging, short circuits, overpower, overcurrent, overheating, over-discharge, and overvoltage.



Figure 1: RoyPow AC to DC Converter (Model C180) showing the main unit, AC power cord, and 12V DC cigarette lighter socket output.

2. SETUP GUIDE

Follow these steps to properly set up your RoyPow AC to DC Converter:

1. **Unpack the Converter:** Carefully remove the RoyPow C180 AC to DC Adapter set from its packaging. Ensure all components listed in the "What you'll get" section are present: the power supply adapter, welcome guide, and warranty card.
2. **Connect to AC Power:** Insert the AC input plug of the converter into a standard 100V~120V household electrical outlet. The green indicator light on the converter should illuminate, indicating it is receiving power.

3. **Connect Your 12V Device:** Plug your 12V automotive electronic device (e.g., car refrigerator, tire inflator, car vacuum cleaner) into the 12V car cigarette lighter socket output of the converter. Ensure the connection is firm and secure.
4. **Placement:** Place the converter on a stable, flat surface with adequate ventilation. Avoid covering the ventilation grilles to prevent overheating. The built-in silent fan requires clear airflow for optimal performance.

Premium Material amd Long Cord

Say no to inferior materials,insisting on using good ones to produce high-quality converters.



Figure 2: Detailed view of the RoyPow converter's components, including the AC plug, main unit, and 12V DC output socket, emphasizing the long cord for extended reach.

Suitable for most car refrigerators on the market

Max Output Power

200 W

Max out current

15 A



Figure 3: The compact size of the RoyPow converter (15.4 x 8.4 x 5 cm) and its 2-meter (6 ft) long cord, providing flexibility in placement.

3. OPERATING INSTRUCTIONS

The RoyPow AC to DC Converter is designed for straightforward operation. Once properly set up, it provides stable 12V DC power for your devices.

3.1 Powering Your Device

After connecting the converter to an AC outlet and your 12V device to the converter's output socket, simply turn on your 12V device. The converter will automatically supply the necessary power. It is capable of delivering up to 180W (Max 200W) and 15A, making it suitable for a wide range of high-power automotive electronics.

Multiple Safety Protections

Say no to inferior materials,insisting on using good ones to produce high-quality converters.



Figure 4: The converter's universal compatibility, showing it can power devices such as a 12V coffee maker, car dash cam, car cool box/refrigerator, car vacuum cleaner, car air purifier, 12V travel tea kettle, and electric mug cup.

3.2 Important Considerations

- **Power Rating:** Ensure that the power consumption of your 12V device does not exceed the converter's maximum output of 200W.
- **Ventilation:** Always ensure the converter is placed in a well-ventilated area and its grilles are not blocked. If operating a high-power device for an extended period, allow the converter to cool down periodically. The built-in fan should manage normal heat.
- **Stable Voltage:** The converter is designed to emulate automotive battery voltage, providing stable 11V/12V/13V/14V output as needed by your device.

Universal Compatibility

compatible with all car devices that under 180W

Maximum power

200 W

Maximum current

15 A



Figure 5: The RoyPow 180W converter is designed for high-power devices, effectively handling loads that a 120W converter might not.

Design for High Power Devices

Work great for heavy-duty devices while a 120W converter cannot.

ROYPOW



180 W



others



120 W



Figure 6: The converter is suitable for powering most car refrigerators on the market, providing up to 200W max output power and 15A max current.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your RoyPow AC to DC Converter.

- **Cleaning:** Regularly wipe the exterior of the converter with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners or abrasive materials. Ensure the ventilation grilles are clear of obstructions.
- **Storage:** When not in use, store the converter in a cool, dry place away from direct sunlight, moisture, and extreme temperatures. Disconnect it from both the AC outlet and any connected devices before storing.
- **Cable Care:** Avoid sharp bends or kinks in the power cables. Do not place heavy objects on the cables, as this can damage the internal wiring.

5. TROUBLESHOOTING

If you encounter issues with your RoyPow AC to DC Converter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Converter not powering on (no green light)	No AC power; loose connection; faulty outlet.	Check if the AC outlet is working by plugging in another device. Ensure the AC plug is fully inserted into the outlet and the converter.
Device not receiving power from converter	12V device not properly connected; device power consumption too high; converter in protection mode.	Ensure the 12V device is securely plugged into the converter's socket. Verify the device's wattage does not exceed 200W. Disconnect and reconnect the converter to reset any protection modes.
Converter feels hot	Insufficient ventilation; prolonged high-load operation.	Ensure the converter is placed in a well-ventilated area and its grilles are not blocked. If operating a high-power device for an extended period, allow the converter to cool down periodically. The built-in fan should manage normal heat.
Unusual noises from converter	Fan obstruction; internal issue.	Check for any obstructions near the fan. If the noise persists or is excessive, discontinue use and contact customer support.

The RoyPow AC to DC Converter is equipped with multiple safety protections including protection against Over Charging, Short Circuits, Over Powering, Over Current, Overheating, Over Discharge, and Over Voltage. If the converter enters a protection mode, disconnect it from the power source and the device, wait a few minutes, and then reconnect.

Compact Size and Long Cord

It sizes 15.4 x 8.4 x 5cm, which is easy to storage and carry.

A total of 2m can reach farther.



Figure 7: The RoyPow converter features comprehensive safety protections to ensure reliable and safe operation.

6. SPECIFICATIONS

Feature	Detail
Model Name	C180
Wattage	180 watts (Max 200W)
Power Source	100V~120V AC to 12V Car Cigarette Lighter Socket DC Power Supply
Output Current	15A

Feature	Detail
Product Dimensions	6.1 x 3.35 x 2.2 inches (15.4 x 8.4 x 5 cm)
Item Weight	1.1 pounds
Manufacturer	RoyPow
Country of Origin	China
Certifications	CE, FCC, RoHS approved

7. WARRANTY AND SUPPORT

RoyPow stands behind the quality of its products. Your RoyPow AC to DC Converter comes with the following:

- **18 Months Warranty:** Enjoy peace of mind with an 18-month warranty covering manufacturing defects and performance issues.
- **Life-long Free Technical Support:** RoyPow provides continuous technical assistance for the lifetime of your product.
- **Unconditional 30-Day Money Back Guarantee:** If you are not completely satisfied, you may return the product within 30 days for a full refund.

For warranty claims, technical support, or any inquiries, please refer to the contact information provided in your product's Welcome Guide or visit the official RoyPow website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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