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RoyPow C180C

RoyPow C180 AC to DC Power Adapter User Manual

Model: C180C | 180W (Max 200W) | 12V/15A

1. INTRODUCTION

Thank you for choosing the RoyPow C180 AC to DC Power Adapter. This manual provides essential information for the safe and efficient use of your device. Please read it thoroughly before operation and retain it for future reference. The RoyPow C180 is designed to convert household AC power (100V-240V) to 11V-14V DC power, allowing you to use most 12V automotive electronic devices with a cigarette lighter plug indoors. With a rated power of 180W (maximum 200W), it can power a wide range of car accessories.

2. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x RoyPow C180 Power Adapter
- 1 x User Manual
- 1 x Warranty Card

Package includes



Image: RoyPow C180 Power Adapter and its packaging, showing the adapter, power cord, and car cigarette lighter socket.

3. IMPORTANT SAFETY INSTRUCTIONS

To ensure safe operation and prevent damage, please observe the following:

- Do not expose the adapter to rain, moisture, or extreme temperatures.
- Do not disassemble or modify the adapter. Refer all servicing to qualified personnel.
- Ensure the input voltage matches the adapter's specifications (100-240V AC).
- Do not overload the adapter. The maximum output is 200W.
- Keep the adapter away from children.
- Ensure proper ventilation around the adapter during use to prevent overheating.
- The adapter features multiple safety protections, including overload, short-circuit, and high-temperature protection.

Multiple Safety Protections

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



High-temperature Protection



High-Voltage Protection



Short Circuit protection



No Radiation



Overload Protection



No Noise

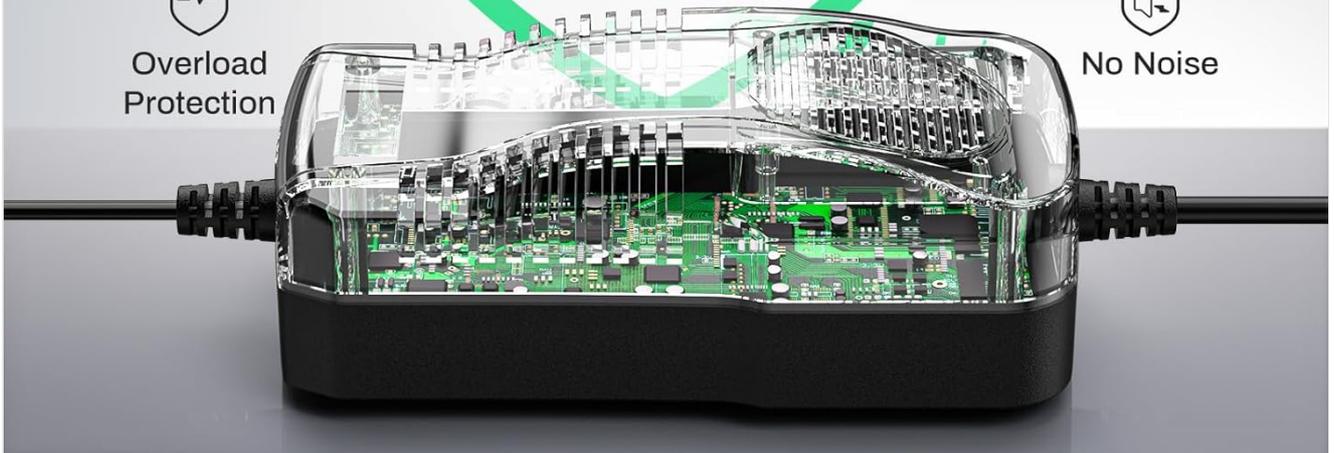


Image: Diagram highlighting the six safety protections: High-temperature Protection, High-Voltage Protection, Short Circuit Protection, No Radiation, Overload Protection, and No Noise.

4. PRODUCT OVERVIEW

The RoyPow C180 power adapter consists of a main converter unit, an AC input cable with a standard plug, and a DC output cable terminating in a car cigarette lighter socket.



Image: The RoyPow C180 power adapter, showing its compact black casing, AC input plug, and DC output car cigarette lighter socket.

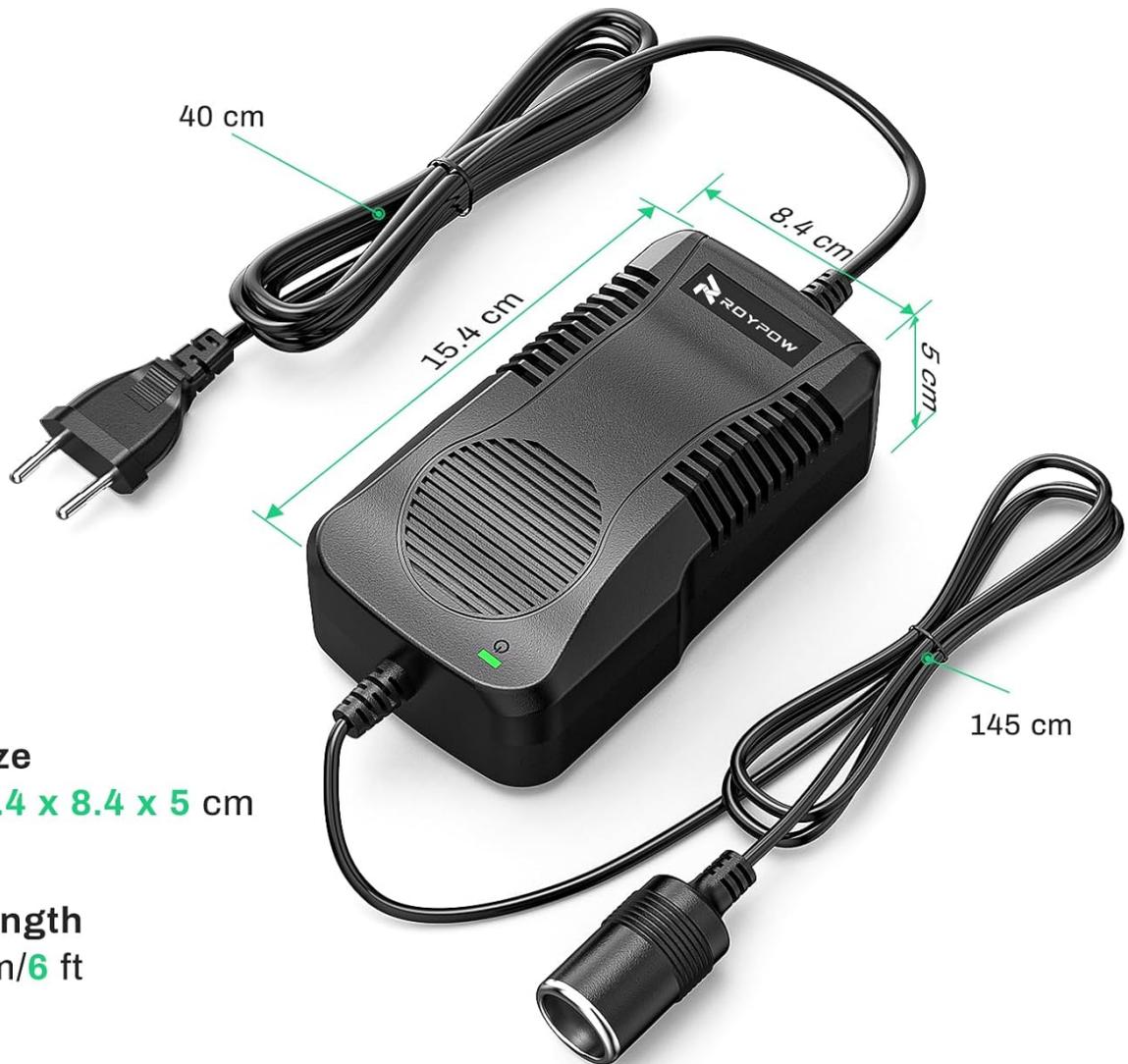
Key Features:

- **High Power Output:** 180W rated, 200W maximum, suitable for various 12V automotive electronics.
- **Variable Voltage Output:** Emulates car battery output (11V-14V DC) for broad compatibility.
- **Quiet Operation:** Integrated silent fan for continuous, low-noise performance.
- **Multiple Safety Protections:** Built-in smart chip protects against overload, short-circuit, and overheating.
- **Compact Design:** Easy to store and carry with a total cable length of 2 meters.

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.



Size

15.4 x 8.4 x 5 cm



Length

2 m/6 ft

Image: The RoyPow C180 adapter with its dimensions: 15.4 cm x 8.4 cm x 5 cm, and a total cable length of 2 meters (6 feet).

5. SETUP INSTRUCTIONS

1. **Connect to AC Power:** Plug the AC input cable of the RoyPow C180 adapter into a standard household electrical outlet (100-240V AC). The indicator light on the adapter should illuminate, indicating power.
2. **Connect Automotive Device:** Insert the cigarette lighter plug of your 12V automotive electronic device into the DC output socket of the RoyPow C180 adapter.
3. **Verify Connection:** Ensure both connections are secure. Your automotive device should now receive power.

6. OPERATING THE ADAPTER

Once set up, the RoyPow C180 adapter operates automatically. It provides a stable 11V-14V DC output to power your connected 12V automotive devices.

- Ensure the total power consumption of your connected devices does not exceed 180W (200W peak).
- The adapter is compatible with a wide range of devices such as car dash cams, 12V travel coffee makers, car vacuum cleaners, car air purifiers, portable refrigerators, and air compressors.

Universal Compatibility

compatible with all car devices that under 180W

Maximum power

200 W

Maximum current

15 A



Image: Illustration of the RoyPow C180's universal compatibility, demonstrating its use with devices like car dash cams, coffee makers, car vacuum cleaners, and portable refrigerators.

Suitable for most car refrigerators on the market

Max Output Power

200 W

Max out current

15 A



Image: The RoyPow C180 adapter connected to a portable car refrigerator, used outdoors with people in the background, demonstrating its utility for powering such devices.

7. MAINTENANCE

- **Cleaning:** Disconnect the adapter from power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the adapter in a cool, dry place when not in use. Avoid wrapping the cables too tightly.
- **Inspection:** Periodically inspect the cables and connectors for any signs of damage. If damage is found, discontinue use and contact customer support.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Adapter not powering on (no indicator light).	No AC power, loose connection, or adapter malfunction.	<ul style="list-style-type: none"> ◦ Check if the AC outlet is functional. ◦ Ensure the AC plug is fully inserted. ◦ Try a different outlet. ◦ If the issue persists, contact customer support.
Connected device not receiving power.	Loose DC connection, device power draw too high, or device malfunction.	<ul style="list-style-type: none"> ◦ Ensure the car cigarette lighter plug is fully inserted into the adapter's socket. ◦ Verify the power requirements of your device do not exceed 180W. ◦ Test the device with another 12V power source if available.
Adapter feels excessively hot.	Overload, poor ventilation, or internal issue.	<ul style="list-style-type: none"> ◦ Disconnect all devices immediately. ◦ Ensure the adapter is not covered and has adequate airflow. ◦ Reduce the load by connecting fewer or lower-power devices. ◦ If overheating persists without load, discontinue use and contact support.

9. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	C180C
Rated Power	180 W
Maximum Power	200 W
Input Voltage	100-240 V AC
Output Voltage	11-14 V DC
Output Current	15 A (Max)
Operating Temperature	-5 °C to 40 °C
Storage Temperature	-25 °C to 85 °C
Operating Humidity	5% to 95% RH
Storage Humidity	5% to 95% RH
Dimensions	155 x 85 x 55 mm
Cable Length	2 meters
Net Weight	500 g

Parameter	Value
Certifications	FCC, CE, RoHS

10. WARRANTY AND SUPPORT

The RoyPow C180 Power Adapter comes with a warranty. Please refer to the included Warranty Card for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact RoyPow customer service through the details provided on your warranty card or the official RoyPow website. Please have your model number (C180C) and purchase information ready when contacting support.