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Kircuit AC Charger for RAVPower Power Banks

Kircuit AC Charger User Manual

For RAVPower Prime 30000mAh 100W 3-Port PD and Pioneer 20100mAh 45W 2-Port Power Banks (Models RP-PB055, RP-PB097)

1. Introduction

This manual provides essential information for the safe and efficient use of your Kircuit AC Charger. Designed as a reliable power supply adapter, it is compatible with various RAVPower power bank models, including the Prime 30000mAh 100W 3-Port PD and Pioneer 20100mAh 45W 2-Port (RP-PB055, RP-PB097). Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.

2. Product Features

The Kircuit AC Charger is engineered with advanced features to provide a safe and efficient charging experience:

- **High Quality Construction:** 100% Brand New, high-quality AC power charger (non-OEM) built for durability and reliable performance.
- **Wide Input Voltage:** Supports a broad input voltage range of 100V-240V AC, making it suitable for global use and an excellent option for travel.
- **Advanced Safety Protections:** Features a built-in Dynamic IC, Charger IC, and power fuse for rapid charging and comprehensive protection against various electrical hazards.
- **Multi-Layered Protection System:** Includes safeguards against short circuits, excess voltage, over-temperature, and overcurrent, ensuring the safety of both the charger and your connected devices.
- **Durable Cable Design:** The power cable is made from high-quality materials with thick insulation, offering protection against wear and tear, and resistance to abrasion. It is designed to withstand high temperatures without melting or degrading, crucial for handling high current loads.
- **Secure Plug Connection:** Plugs are well-made and designed to provide a secure and stable connection, capable of handling high electrical loads without overheating or posing a fire hazard.



Figure 2.1: Overview of the Kircuit AC Charger and its detachable power cord.

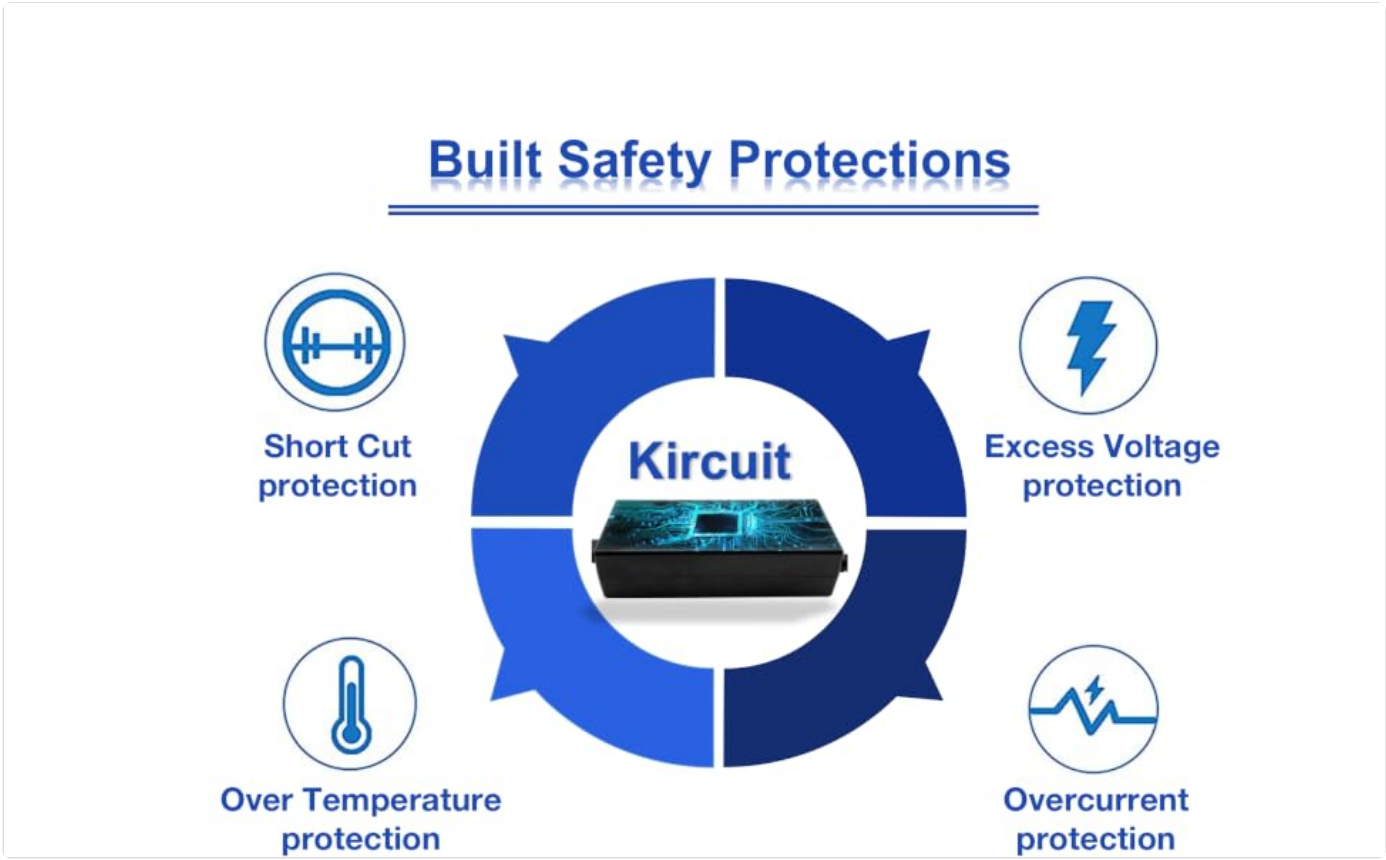


Figure 2.2: Illustration of the charger's built-in safety protections.

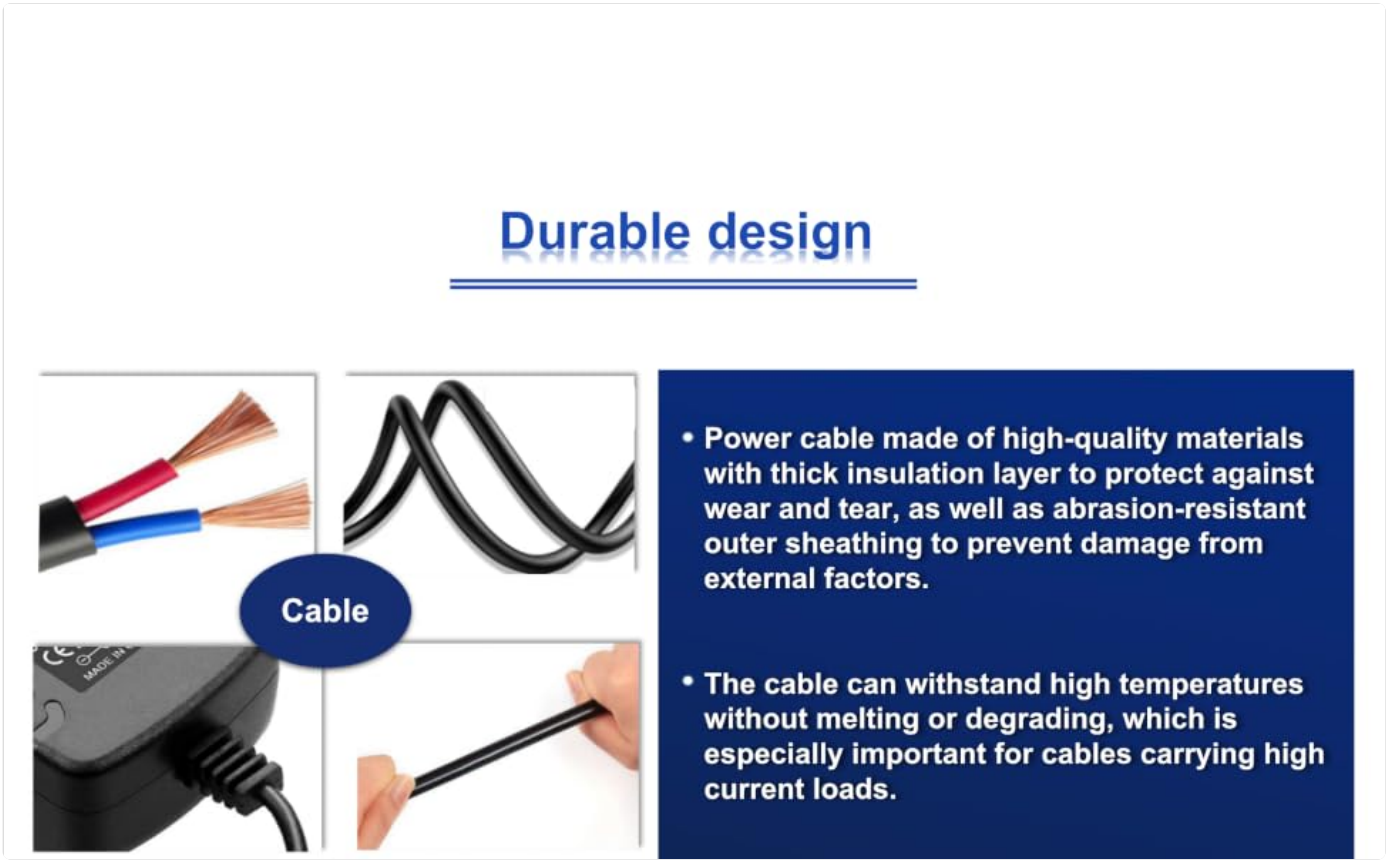


Figure 2.3: Details of the durable cable design, highlighting thick insulation and abrasion resistance.

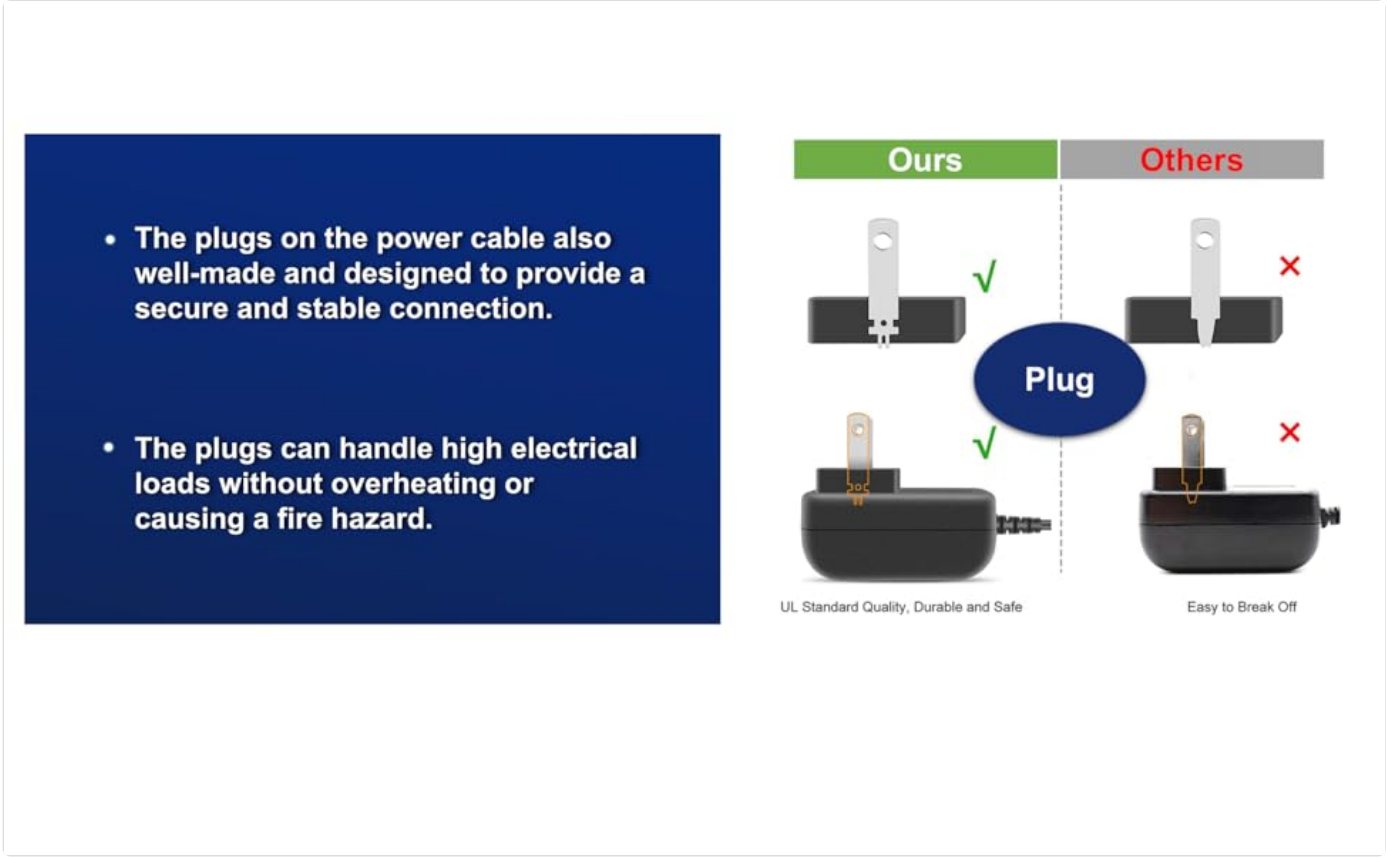


Figure 2.4: Comparison illustrating the robust and secure design of Kircuit charger plugs.

3. Setup

Follow these steps to set up your Kircuit AC Charger:

1. **Unpack:** Carefully remove the AC charger and its power cord from the packaging.
2. **Connect Power Cord:** Insert the figure-8 connector of the power cord firmly into the corresponding port on the AC adapter unit. Ensure it clicks securely into place.
3. **Connect to Power Bank:** Plug the barrel connector end of the AC adapter into the charging input port of your RAVPower power bank (e.g., RP-PB055, RP-PB097).
4. **Plug into Outlet:** Insert the two-prong plug of the power cord into a standard 100V-240V AC wall outlet.
5. **Verify Connection:** Confirm that all connections are secure. The power bank should indicate that it is receiving a charge (e.g., via an LED indicator).



Figure 3.1: The AC adapter unit and its detachable power cord.

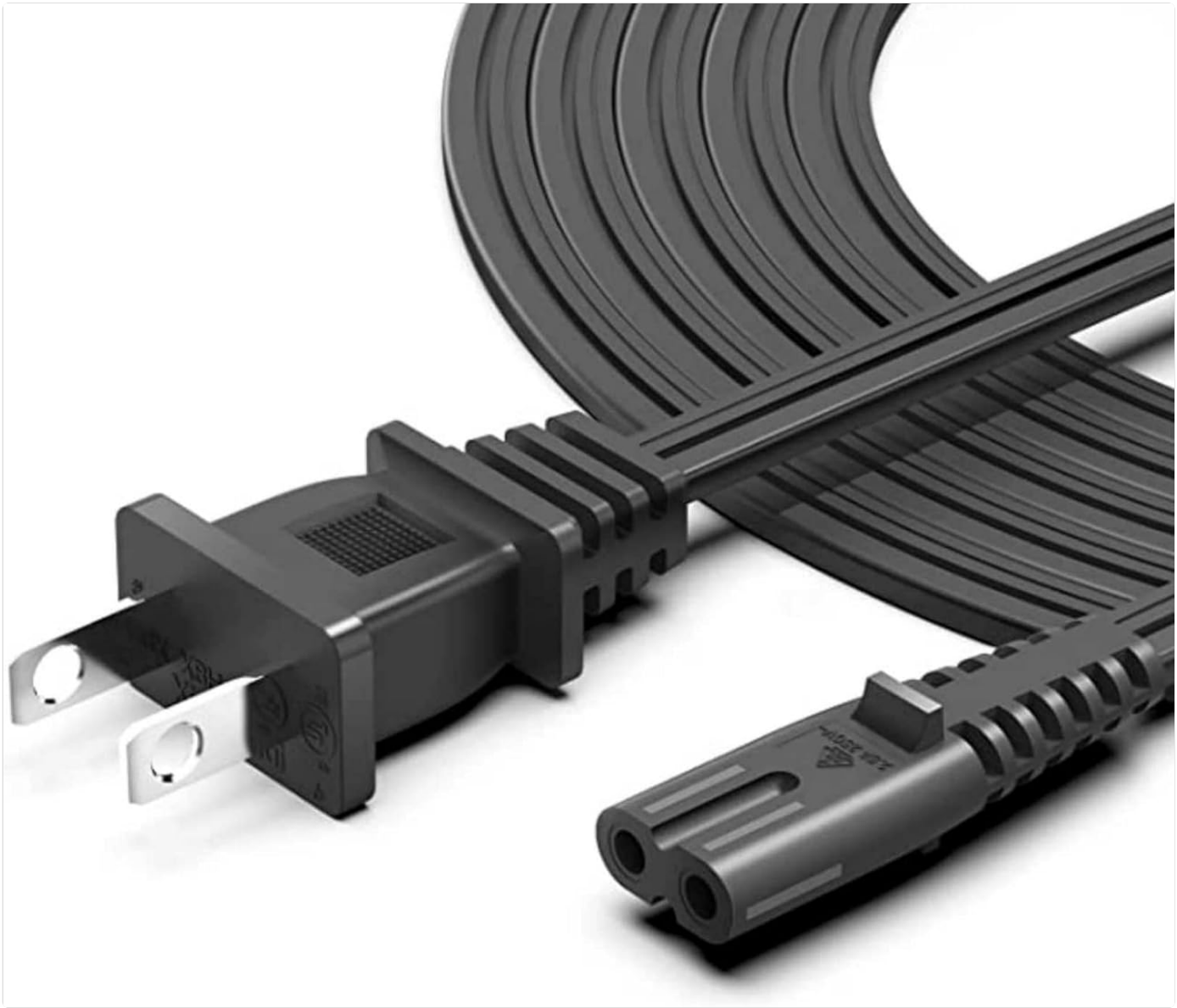


Figure 3.2: Detailed view of the wall plug and the connector for the adapter unit.



Figure 3.3: The AC charger connected to a wall outlet, ready for use.

4. Operating Instructions

Once the charger is set up as described in Section 3, it is ready for operation:

- Ensure the power bank is properly connected to the charger and the charger is plugged into a live electrical outlet.
- The charger will automatically begin supplying power to the connected RAVPower power bank.
- Monitor the power bank's charging indicator (if available) to track charging progress.
- Once the power bank is fully charged, it is recommended to disconnect it from the charger and unplug the charger from the wall outlet.

Important: This charger is designed for charging compatible RAVPower power banks. Do not attempt to use it with incompatible devices or for purposes other than its intended use.

5. Maintenance

Proper maintenance will extend the life of your Kircuit AC Charger:

- **Cleaning:** Disconnect the charger from all power sources and devices before cleaning. Use a soft, dry cloth to wipe the surface. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight, extreme temperatures, and humidity. When storing, coil the cables loosely; avoid tight bends or kinks that can damage the internal wires.
- **Handling:** Avoid dropping the charger or subjecting it to strong impacts. Do not pull on the cord to unplug it from the wall outlet or the adapter unit; always grasp the plug itself.
- **Inspection:** Periodically inspect the charger and cables for any signs of damage, such as frayed wires, cracked casing, or bent pins. If any damage is observed, discontinue use immediately and replace the unit.

6. Troubleshooting

If you encounter issues with your Kircuit AC Charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not supplying power.	No power from outlet. Loose connection. Damaged charger or cable.	Test the outlet with another device. Ensure all connections (wall, adapter, power bank) are firm. Inspect charger and cables for visible damage. If damaged, replace.
Slow charging.	Power bank issue. Charger not fully compatible (unlikely for specified models).	Ensure the power bank is not excessively hot or cold. Verify the power bank's charging input requirements match the charger's output.
Charger gets hot during use.	Normal operation under load. Poor ventilation. Overload or internal fault.	A slight warmth is normal. Ensure the charger is in a well-ventilated area. If excessively hot or emitting smoke/smell, unplug immediately and discontinue use.

If the problem persists after attempting these solutions, please contact Kircuit customer support for further assistance.

7. Specifications

Feature	Detail
Brand	Kircuit
Input Voltage	100V-240V AC
Wattage	45 watts
Connector Type	Barrel Connector
Compatible Devices	RAVPower Prime 30000mAh 100W 3-Port PD, Pioneer 20100mAh 45W 2-Port (RP-PB055, RP-PB097) Power Banks
Special Features	Portable, Travel-friendly, Built-in Safety Protections (Short Circuit, Over Voltage, Over Temperature, Overcurrent)

Feature	Detail
Power Source	Corded Electric
Date First Available	June 19, 2020

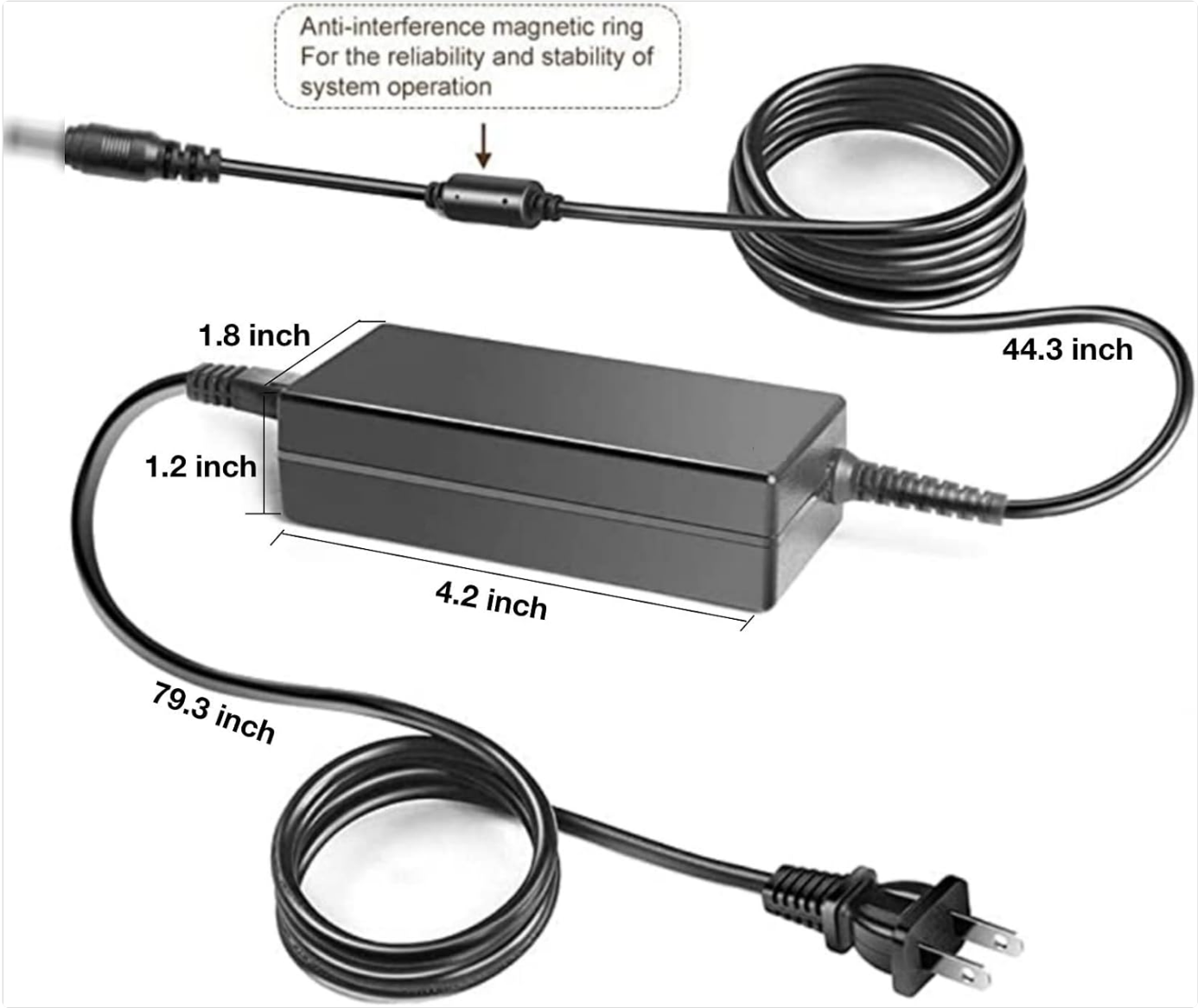


Figure 7.1: Dimensions of the AC adapter unit and the anti-interference magnetic ring on the cable.

8. Warranty and Support

Kircuit products are designed for reliability and performance. While specific warranty details are not provided in this manual, Kircuit typically offers a warranty period for its products. Please refer to the product packaging or the official Kircuit website for the most up-to-date warranty information.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact Kircuit customer service through their official channels. Have your product model and purchase information ready when contacting support.



Figure 8.1: The product packaging, which may contain warranty information.

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