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Kircuit RK-3100500

Kircuit 31V AC/DC Adapter User Manual

Model: RK-3100500

Compatible with UMLo S9 S-9 59 25.9V Li-ion Battery 400W Lightweight Cordless Stick Vacuum Cleaner

1. Product Overview

The Kircuit AC/DC Adapter is designed to provide reliable power to your compatible devices, specifically the UMLo S9 S-9 59 25.9V Li-ion Battery 400W Lightweight Cordless Stick Vacuum Cleaner. This adapter efficiently converts standard AC wall power into the DC power required by your device, enabling both operation and battery charging.

It is engineered for portability and convenience, suitable for use at home, in the office, or while traveling. Each adapter undergoes rigorous testing to ensure compatibility and optimal performance with your specified vacuum cleaner model.



Figure 1.1: Front view of the Kircuit 31V AC/DC Adapter, showing the main unit and the attached power cord with a barrel connector.

2. Safety Information

- **Input Voltage:** This adapter is designed for World Wide Input Voltage 100-240VAC, 50/60Hz. Ensure your power outlet matches these specifications.
- **Output Voltage:** The charger's output voltage is 31-32V DC. It is crucial to understand that this is the charger's voltage, NOT the vacuum cleaner's battery voltage (which is 25.9V). Do not attempt to use this adapter with devices requiring a different voltage.
- **Protection Features:** The adapter includes Over Voltage Output Protection (OVP), Over Current Output Protection (OCP), and Short Circuit Output Protection (SCP) to ensure safe operation.
- **Environmental Conditions:** Use the adapter in dry conditions. Avoid exposure to moisture, rain, or extreme temperatures.
- **Handling:** Do not disassemble, modify, or drop the adapter. Do not pull the cord to disconnect from the outlet.
- **Ventilation:** Ensure adequate ventilation around the adapter during use to prevent overheating.
- **Battery Condition:** Note that rechargeable batteries have a limited lifespan (typically 1 to 3 years). If the vacuum cleaner's battery is old or faulty, it may not accept a charge, which is a battery issue, not a charger defect.

3. Setup

1. **Unpack:** Carefully remove the Kircuit AC/DC adapter from its packaging.
2. **Inspect:** Before use, visually inspect the adapter and its cord for any signs of damage. Do not use if damaged.
3. **Connect to Device:** Locate the charging port on your UMLo S9 S-9 59 Cordless Stick Vacuum Cleaner. Insert the barrel connector of the Kircuit adapter firmly into the vacuum's charging port.
4. **Connect to Power Outlet:** Plug the AC prongs of the adapter into a standard 100-240VAC wall outlet. Ensure the connection is secure.



Figure 3.1: The Kircuit AC/DC Adapter connected to a power strip, demonstrating a typical setup for charging or powering a device.

4. Operating Instructions

Once properly connected, the Kircuit AC/DC adapter will begin supplying power to your UMLo S9 S-9 59 vacuum cleaner. If the vacuum cleaner's battery is depleted, the adapter will initiate the charging process. The charging indicator on your vacuum cleaner (if available) will typically illuminate or change status to indicate charging is in progress.

- For continuous operation of the vacuum cleaner while plugged in, ensure the adapter is securely connected to both

the device and the power outlet.

- To charge the battery, simply leave the adapter connected until the vacuum cleaner's battery indicator shows a full charge.
- The adapter is designed to provide stable power. If the device is not powering on or charging, refer to the Troubleshooting section.

5. Maintenance

- **Cleaning:** Disconnect the adapter from the power outlet and the device before cleaning. Use a soft, dry cloth to wipe the surface. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use, store the adapter in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid tightly winding the cord to prevent damage.
- **Cord Care:** Regularly check the power cord for any cuts, fraying, or kinks. If any damage is observed, discontinue use immediately. The cord length is approximately 6.5 feet.



Figure 5.1: The Kircuit AC/DC Adapter, highlighting its cord length for proper storage and usage planning.

6. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Adapter not supplying power/device not charging.	No power from outlet. Loose connection. Faulty adapter. Vacuum cleaner's battery is old/bad.	Test the outlet with another device. Ensure adapter is firmly plugged into both the wall and the vacuum cleaner. Inspect adapter and cord for damage. If damaged, discontinue use. Rechargeable batteries have a limited lifespan (1-3 years). An old or faulty battery may not accept a charge. This is a battery issue, not a charger issue.
Adapter feels warm during use.	Normal operation.	Slight warmth is normal. If it becomes excessively hot or emits smoke/odor, unplug immediately and discontinue use. Ensure adequate ventilation.

7. Specifications

Feature	Detail
Brand	Kircuit
Model	RK-3100500
Input Voltage	100-240VAC, 50/60Hz
Output Voltage	31VDC - 32VDC
Output Current	0.5A (500mA)
Power Output	15.5W
Connector Type	Barrel
Cord Length	Approx. 6.5 feet
Protection Features	OVP, OCP, SCP
Color	Black
Item Weight	6.2 ounces
Package Dimensions	4 x 3 x 2.2 inches



Figure 7.1: Multiple views of the Kircuit AC/DC Adapter, showcasing its design and compact form factor.

8. Warranty and Support

For warranty information and technical support regarding your Kircuit AC/DC Adapter, please refer to the documentation provided with your purchase or contact the seller directly. Ensure you have your purchase details and product model number (RK-3100500) available when seeking support.

This adapter has been tested and validated to ensure compatibility and performance. For issues related to the vacuum cleaner itself or its battery, please consult the vacuum cleaner's specific user manual or manufacturer.

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