Evolution Power Tools R18RCH-LI2 (Model 108-0002A)

Evolution Power Tools R18RCH-LI2

18V EXT Lithium-Ion Dual Battery Charger User Manual

1. Introduction

Thank you for choosing the Evolution Power Tools R18RCH-LI2 18V EXT Lithium-Ion Dual Battery Charger. This intelligent charger is designed to efficiently charge two Evolution EXT 18V Lithium-Ion batteries simultaneously, ensuring your tools are always ready for use. It features smart battery management to optimize battery life and minimize charging time. This manual provides essential information for the safe and effective use of your charger.

2. Safety Information

Always read and understand all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Indoor Use Only:** This charger is designed for indoor use in dry conditions. Do not expose to rain or wet conditions.
- **Ventilation:** Ensure adequate ventilation around the charger during operation. Do not cover the charger.
- **Compatible Batteries:** Only charge Evolution EXT 18V Lithium-Ion batteries (2Ah, 4Ah, 5Ah, 8Ah) and compatible Erbauer 18V EXT Li-Ion batteries. Do not attempt to charge non-rechargeable batteries or other battery types.
- **Damaged Charger/Battery:** Do not use the charger or battery if they are damaged. Contact customer support for assistance.
- **Electrical Connection:** Ensure the power supply voltage matches the rating plate on the charger.

- **Children and Pets:** Keep the charger and batteries out of reach of children and pets.

3. Setup

Follow these steps for initial setup of your dual battery charger:

1. **Unpack:** Carefully remove the charger from its packaging. Inspect for any damage during transit.
2. **Placement:** Place the charger on a stable, flat, non-flammable surface in a well-ventilated area.
3. **Connect Power:** Plug the charger's power cord into a suitable 230V AC power outlet. The indicator lights on the charger may briefly illuminate.
4. **Insert Batteries:** Align the battery with the charging port and slide it into place until it clicks securely. You can insert one or two batteries.



Figure 1: The Evolution Power Tools R18RCH-LI2 Dual Battery Charger. This image shows the charger with its two charging ports, ready to accept 18V EXT Lithium-Ion batteries.

4. Operating the Charger

The R18RCH-LI2 charger is designed for ease of use with intelligent charging features.

4.1 Charging Process

1. Once a battery is inserted, the charger will automatically begin the charging process.
2. Monitor the LED indicators on the charger for charging status:
    - **Solid Red:** Charging.
    - **Solid Green:** Fully charged.
    - **Flashing Red:** Battery error or temperature issue. Remove battery and allow to cool.
3. The intelligent battery management system optimizes the charge cycle to prolong battery life and ensure rapid charging.
4. A typical 2Ah battery can be fully charged in approximately 90 minutes. Charging time will vary for larger capacity batteries (4Ah, 5Ah, 8Ah).

4.2 Dual Charging Capability

The R18RCH-LI2 features two independent charging circuits, allowing you to charge two batteries simultaneously without compromising charging speed. Both batteries will charge at the same rate as a single battery in a single-port charger.



Figure 2: The dual charger in operation, with a battery inserted and charging. The image highlights the compact design and the charging indicator lights.

4.3 Battery Compatibility

This charger is compatible with all Evolution EXT 18V Lithium-Ion batteries, including 2Ah, 4Ah, 5Ah, and 8Ah models. It also supports 18V EXT Li-Ion batteries from Erbauer, providing versatile charging

options for your cordless tool collection.



Figure 3: Visual representation of the compatibility between Evolution and Erbauer 18V EXT battery systems. This charger supports both brands' 18V EXT Lithium-Ion batteries.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your charger.

- **Cleaning:** Disconnect the charger from the power supply before cleaning. Use a soft, dry cloth to wipe down the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Avoid Damage:** Do not drop the charger or expose it to impacts. Protect the power cord from damage.
- **Ventilation Grilles:** Keep the ventilation grilles clear of dust and debris to ensure proper airflow.

6. Troubleshooting

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

Problem	Possible Cause	Solution
Charger not powering on.	No power from outlet; loose connection; damaged cord.	Check power outlet; ensure cord is securely plugged in; inspect cord for damage.
Battery not charging (flashing red light).	Battery too hot/cold; battery fault; improper insertion.	Allow battery to reach room temperature; re-insert battery firmly; if problem persists, battery may be faulty.
Slow charging.	Poor ventilation; extreme ambient temperature.	Ensure charger is in a well-ventilated area; operate within recommended temperature range.

If the issue persists after attempting these solutions, please contact Evolution Power Tools customer support.

7. Specifications

Feature	Detail
Model Number	R18RCH-LI2 (108-0002A)
Manufacturer	Evolution Power Tools

Feature	Detail
Dimensions (L x W x H)	16.5 x 33 x 7 cm
Weight	1.66 Kilograms
Input Voltage	230 Volts AC
Output Voltage	240 Volts
Output Current	1.3 A
Approx. Charge Time (2Ah)	90 minutes
Certification	CE
UPC	849713095954

8. Warranty and Support

Evolution Power Tools strives for high customer satisfaction. While specific warranty details are not provided in this manual, products purchased from Amazon typically come with a 30-day return policy.

For technical support, spare parts availability (note: information on spare parts availability is currently unavailable), or any other inquiries regarding your R18RCH-LI2 charger, please visit the official Evolution Power Tools website or contact their customer service department. Always provide your product model number (R18RCH-LI2 or 108-0002A) when seeking support.

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