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› EBL 16-Bay AA/AAA NiMH Rechargeable Battery Charger (Model RM78) User Manual

EBL RM78

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Model: RM78

1. INTRODUCTION

Thank you for choosing the EBL 16-Bay AA/AAA NiMH Rechargeable Battery Charger, Model RM78. This intelligent charger is designed to efficiently and safely charge up to 16 AA or AAA NiMH rechargeable batteries simultaneously. Featuring a fast charging capability and an intuitive LCD display, it provides a convenient solution for your power needs. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your batteries and charger.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in fire, electric shock, or injury.

- This charger is designed exclusively for AA and AAA NiMH rechargeable batteries. Do not attempt to charge non-rechargeable batteries (e.g., Alkaline, Carbon-Zinc) or other battery types (e.g., NiCd, Lithium-ion, LiFePO4), as this may lead to explosion, leakage, or personal injury.
- Ensure correct polarity (+/-) when inserting batteries into the charging slots. Incorrect insertion can damage the charger and batteries.
- Use the charger only indoors and in dry conditions. Do not expose it to rain, moisture, or extreme temperatures.
- Do not disassemble, modify, or attempt to repair the charger. Contact EBL customer support for assistance.
- Keep the charger away from children and pets.
- Unplug the charger from the power outlet when not in use or before cleaning.
- Do not operate the charger if it has been damaged in any way, including the power cord or plug.
- Avoid placing metal objects or foreign materials into the charging slots.
- Ensure adequate ventilation around the charger during operation. Do not cover the charger.

3. PACKAGE CONTENTS

- 1 x EBL 16-Bay AA/AAA NiMH Rechargeable Battery Charger (Model RM78)
- 1 x AC Power Cable

- 1 x User Manual



Image 3.1: The EBL 16-Bay Battery Charger, AC power cable, and user manual as typically found in the product packaging.

4. PRODUCT FEATURES

- **16 Independent Charging Slots:** Allows charging of 1 to 16 AA or AAA NiMH rechargeable batteries simultaneously, without needing to charge in pairs.
- **1-3 Hour Fast Charging:** Equipped with advanced iQuick technology, delivering up to 2000mA output current per slot for rapid charging.
- **Intelligent LCD Display:** A gentle green LCD screen provides real-time charging status for each individual battery, including charge level and error detection.
- **Comprehensive Safety Protection:** Built-in MCU control system offers protection against overcharging, overheating, short-circuiting, over-current, and reverse-polarity.
- **Trickle Charge Mode:** Automatically switches to trickle charge after full charge to prevent overcharging and extend battery lifespan.

- **Worldwide Compatibility:** AC 100-240V input with an integrated AC plug cable for convenient use globally.



Upgraded 16 Slots Individual Charger

Charges 1-16pcs AA/AAA Ni-MH rechargeable batteries without pairs



Image 4.1: The EBL charger demonstrating its 16 individual charging slots, capable of charging various combinations of AA and AAA batteries.



1 Hour Fast AA AAA Charger

High-speed charging with up to 2000mA for single slot

**Super Fast Charging
up to 2000mA**

1-16pcs AA 2300mAh: 1.5-3 hrs

1-16pcs AAA 1100mAh: 0.7-1.5 hrs



Charging 4X Faster



Image 4.2: Visual representation of the iQuick fast charging technology, highlighting the speed at which 1 to 16 batteries can be charged.

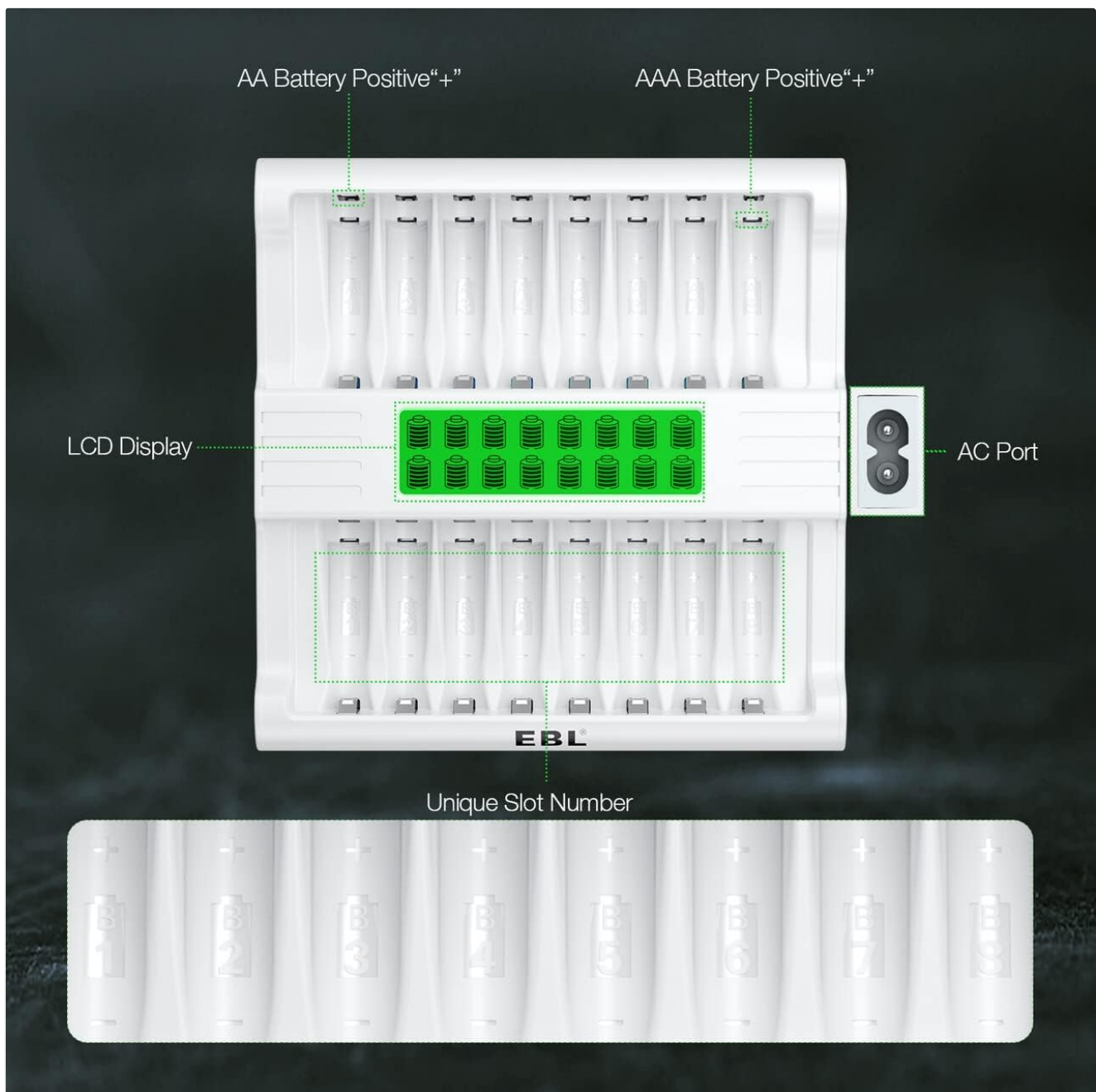


Image 4.3: Illustration of the trickle charge mode, which activates after fast charging to maintain battery health and prevent overcharging.

5. PRODUCT DIAGRAM



Trickle Charge Mode

Maximizes battery performance, extends batteries life

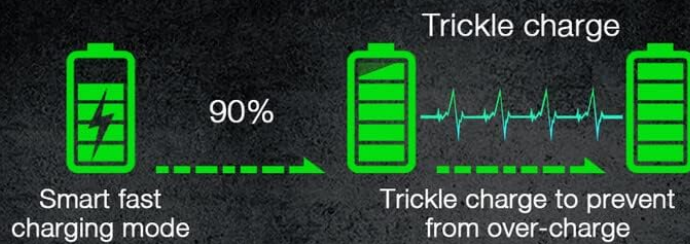


Image 5.1: Overview of the EBL 16-Bay Battery Charger, highlighting key components such as the AA and AAA battery positive terminals, the LCD display, the AC power port, and the individually numbered charging slots.

- **AA Battery Positive "+":** Top row of slots for AA batteries.
- **AAA Battery Positive "+":** Bottom row of slots for AAA batteries.
- **LCD Display:** Shows charging status for each battery.
- **AC Port:** Connection point for the AC power cable.
- **Unique Slot Number:** Each slot is numbered for easy identification.

6. SETUP

1. Unpack the EBL 16-Bay Battery Charger and its accessories.
2. Place the charger on a stable, flat, and well-ventilated surface, away from direct sunlight, heat sources, and moisture.
3. Connect one end of the provided AC power cable to the AC port on the side of the charger.
4. Plug the other end of the AC power cable into a standard AC 100-240V wall outlet. The LCD display will briefly

illuminate, indicating the charger is powered on and ready for use.

7. OPERATING INSTRUCTIONS

1. **Insert Batteries:** Carefully insert 1 to 16 AA or AAA NiMH rechargeable batteries into the corresponding charging slots. Ensure the positive (+) and negative (-) ends of the batteries match the polarity markings in the slots. For AA batteries, use the top row of slots. For AAA batteries, use the bottom row of slots.
2. **Start Charging:** Once batteries are correctly inserted, the charger will automatically detect them and begin the charging process. The LCD display will show the charging status for each individual battery.
3. **Monitor Charging Status:** Observe the LCD display to monitor the charge level of each battery. The battery icons on the display will flash during charging.
4. **Charging Complete:** When a battery is fully charged, its corresponding icon on the LCD display will stop flashing and remain solid. The charger will then switch to trickle charge mode to maintain the battery's charge.
5. **Remove Batteries:** Once charging is complete, carefully remove the batteries from the slots. It is recommended to remove batteries promptly after they are fully charged.

8. LCD DISPLAY INDICATORS

The intelligent LCD display provides clear visual feedback on the charging status of each battery:



Intelligent Large LCD Display

Easily to get detailed charging information for each battery

LCD Indicator	 (flashing)	 (solid)	 (flashing)
Status	Charging in process	Fully charged	Non-rechargeable/ broken batteries detected

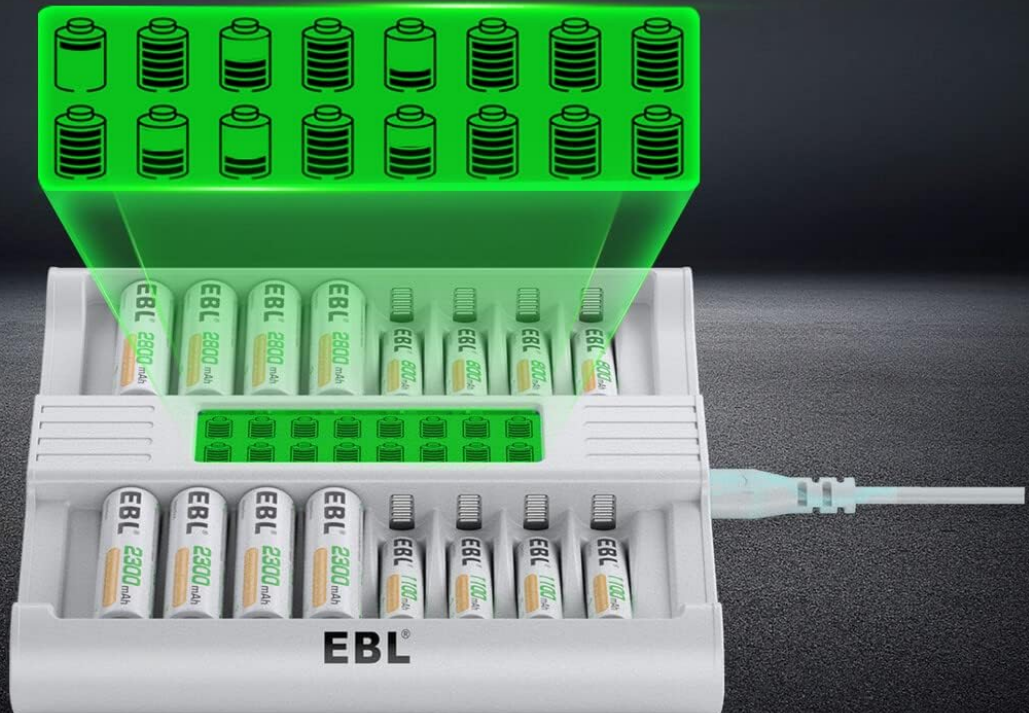


Image 8.1: Detailed explanation of the LCD display indicators, showing how to interpret charging status, full charge, and error conditions.

Indicator	Status	Description
Battery Icon (flashing)	Charging in process	The battery in the corresponding slot is currently charging. The number of bars indicates the approximate charge level.
Battery Icon (solid)	Fully charged	The battery in the corresponding slot has reached full charge. The charger will enter trickle charge mode.
Battery Icon (flashing with 'X' or similar error symbol)	Non-rechargeable/broken batteries detected	The charger has detected a non-rechargeable battery, a damaged battery, or an incorrectly inserted battery. Remove the battery immediately.

9. MAINTENANCE

- **Cleaning:** Disconnect the charger from the power outlet before cleaning. Use a soft, dry cloth to wipe the

surface of the charger. Do not use abrasive cleaners or solvents.

- **Storage:** Store the charger in a cool, dry place when not in use. Avoid storing it in areas with high humidity or extreme temperatures.
- **Battery Care:** For optimal battery life, avoid completely draining batteries before recharging. Store rechargeable batteries with a partial charge if they will not be used for an extended period.

10. TROUBLESHOOTING

Q: The LCD display is not lighting up.

A: Ensure the AC power cable is securely connected to both the charger and a working wall outlet. Check if the wall outlet has power.

Q: Batteries are not charging, and the LCD shows an error symbol.

A: This indicates a non-rechargeable battery, a damaged battery, or incorrect polarity. Remove the battery, verify it is a NiMH rechargeable type, check its condition, and ensure it is inserted with correct polarity (+/-). If the issue persists with a known good battery, the slot or charger may be faulty.

Q: Charging seems slow.

A: Charging times can vary based on the battery's capacity and its initial charge level. Ensure you are using NiMH batteries. If charging is consistently slower than expected, ensure the charger is in a well-ventilated area and not overheating.

Q: Batteries get warm during charging.

A: It is normal for batteries to become slightly warm during charging. However, if they become excessively hot, immediately remove them from the charger and discontinue use. This could indicate a faulty battery or charger issue. Ensure proper ventilation.

11. SPECIFICATIONS

- **Model:** RM78
- **Input:** AC 100-240V
- **Output Voltage:** 1.2V
- **Output Current:** Up to 2000mA per slot (for fast charging)
- **Compatible Battery Types:** AA/AAA NiMH Rechargeable Batteries
- **Number of Slots:** 16 independent slots
- **Product Dimensions:** 1.2 x 6.2 x 6.3 inches (3.05 x 15.75 x 16.0 cm)
- **Item Weight:** 1.01 pounds (0.46 kg)

12. WARRANTY AND SUPPORT

EBL provides a 12-month worry-free service for this product from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. It does not cover damage caused by misuse, unauthorized modification, or improper handling.

For technical support, warranty claims, or any questions regarding your EBL 16-Bay AA/AAA NiMH Rechargeable Battery Charger, please contact EBL customer service through the retailer where you purchased the product or visit the official EBL website for contact information.

Please retain your proof of purchase for warranty purposes.

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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