

EBL FY-1209

EBL 12-Bay Independent LCD AA AAA Battery Charger Instruction Manual

Model: FY-1209

Brand: EBL

INTRODUCTION

Thank you for choosing the EBL 12-Bay Independent LCD Battery Charger. This manual provides essential information for the safe and efficient operation of your new charger. Please read it thoroughly before use and retain it for future reference.

IMPORTANT SAFETY INFORMATION

- Use only with Ni-MH and Ni-CD AA/AAA rechargeable batteries. Do not attempt to charge non-rechargeable batteries.
- Avoid short-circuiting the battery terminals.
- Do not disassemble or modify the charger.
- Keep the charger away from water, moisture, and high temperatures.
- Ensure proper ventilation during charging to prevent overheating.
- Unplug the charger from the power source when not in use or before cleaning.
- Keep out of reach of children.
- If the charger or batteries show signs of damage, discontinue use immediately.

PACKAGE CONTENTS

- 1 x EBL FY-1209 Smart Battery Charger
- 1 x User Manual
- 1 x Type-C Cable

PRODUCT OVERVIEW

The EBL 12-Bay Smart Battery Charger is designed for efficient and safe charging of Ni-MH and Ni-CD AA/AAA rechargeable batteries. Key features include:

- **Independent Charging Slots:** Each of the 12 bays charges independently, allowing for flexible charging of 1 to 12 batteries simultaneously, regardless of their charge level.
- **Discharge Function:** A unique discharge function helps eliminate the memory effect of batteries, restoring their power and improving performance.
- **Clear LCD Screen Display:** The large LCD screen provides real-time status updates for each battery during charging or discharging, including charge level and error indicators.
- **Smart Detection:** Automatically detects reverse polarity, damaged batteries, non-rechargeable batteries, and fully charged batteries, ensuring safe operation.
- **Multiple Safety Protections:** Features over-heat, over-current, short-circuit, and non-rechargeable/defective battery detection for enhanced safety.
- **Convenient Type-C Input:** Compatible with various 5V/2A power sources like adapters, laptops, car chargers, and power banks for versatile charging.

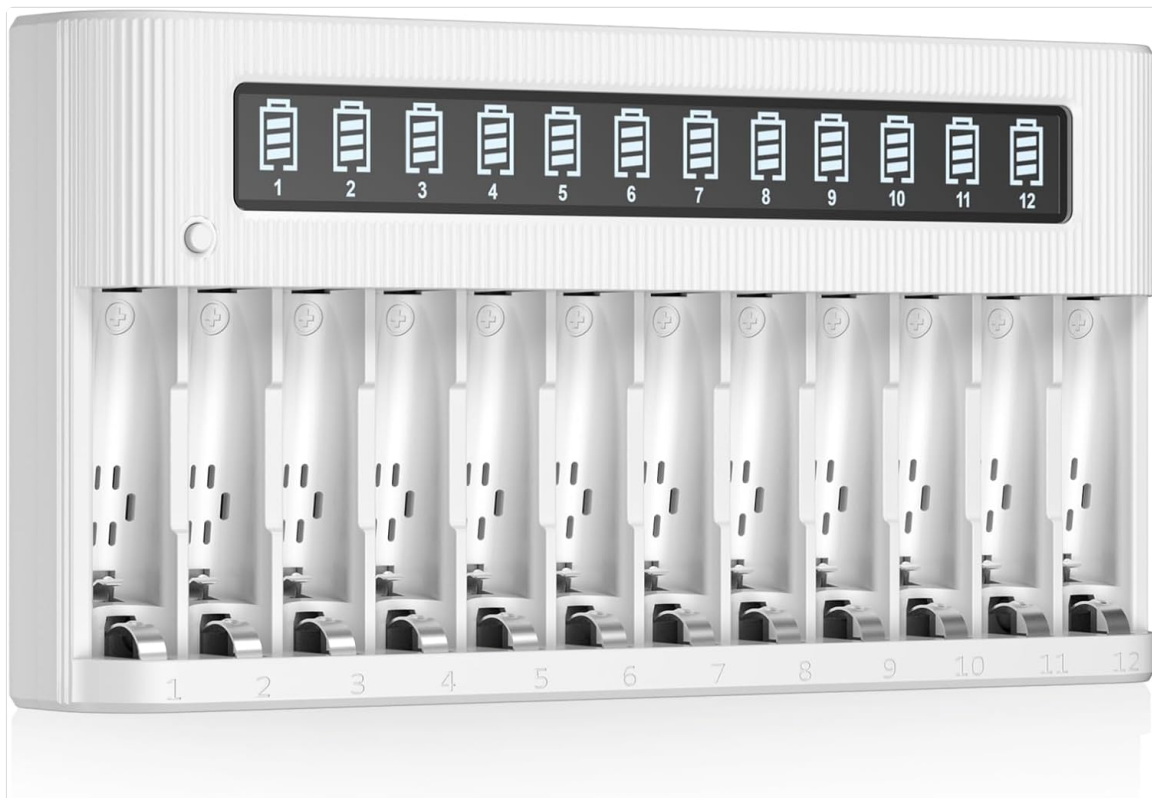


Figure 1: Front view of the EBL 12-Bay Independent LCD Battery Charger.

This image shows the white EBL 12-bay battery charger with its prominent LCD display and 12 individual battery slots. The design is sleek and compact.



Figure 2: Labeled components of the EBL 12-Bay Battery Charger.

This image highlights the key components of the charger, including the Charge/Discharge Button, LCD Display, Type-C Input Port, AA/AAA Battery "+" and "-" terminals, and Cooling Holes. Each slot is numbered from 1 to 12.



Figure 3: The EBL 12-Bay Battery Charger demonstrating its compact and portable design.

This image displays the charger from a side angle, emphasizing its slim profile and portability, making it easy to store or carry.

SETUP

1. **Connect Power:** Insert the provided Type-C cable into the charger's Type-C input port. Connect the other end of the cable to a 5V/2A USB power source (e.g., wall adapter, computer USB port, power bank). The LCD screen will briefly illuminate, indicating the charger is powered on.
2. **Prepare Batteries:** Ensure your Ni-MH or Ni-CD AA/AAA rechargeable batteries are clean and free from damage.

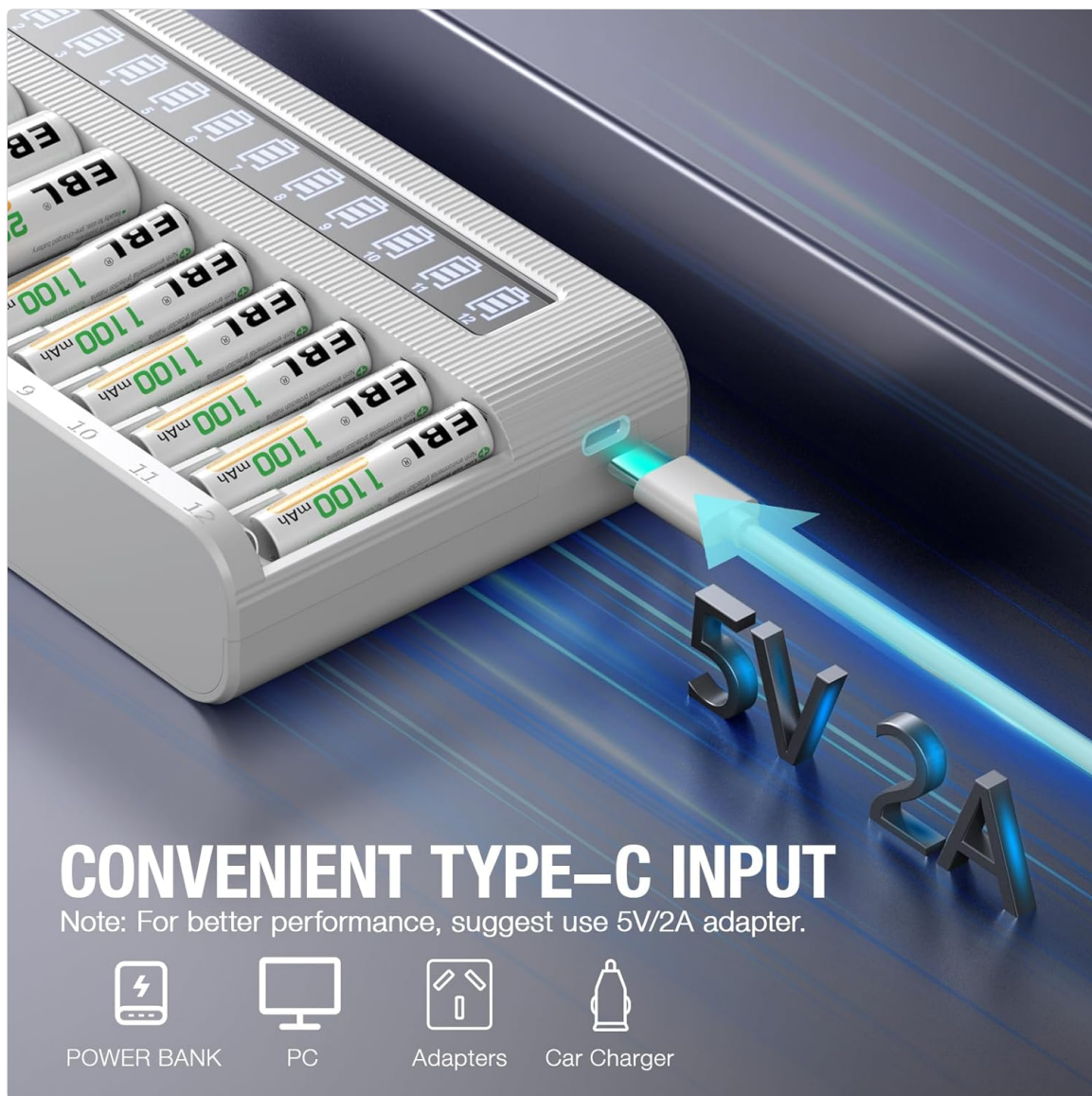


Figure 4: Connecting the Type-C power cable to the charger.

This image illustrates the Type-C input port on the side of the charger, showing the cable being connected. It emphasizes the convenience of using various 5V/2A power sources.

OPERATING INSTRUCTIONS

1. Inserting Batteries

- Insert 1 to 12 AA or AAA Ni-MH/Ni-CD rechargeable batteries into the respective slots.
- Ensure the positive (+) and negative (-) ends of the batteries match the polarity markings in the charger slots.
- The charger supports both AA and AAA batteries in any slot. For AAA batteries, ensure they make proper contact with the smaller terminals.

12 SLOT INDEPENDENT CHARGER

Freely charge 1-12pcs 1.2V AA AAA Ni-MH/Ni-CD rechargeable batteries, no need to pair



Figure 5: Inserting AA and AAA batteries into the independent charging slots.

This image demonstrates how to insert both AA and AAA batteries into the charger's 12 independent slots. It highlights the flexibility of charging different battery types simultaneously.

2. Understanding the LCD Display

- Upon inserting batteries, the LCD screen will display the real-time charging status for each individual slot.
- Battery icons will animate to indicate active charging.
- A full, static battery icon indicates the battery is fully charged.
- An "X" or "Wrong" icon indicates a non-rechargeable, damaged, or incorrectly inserted battery.



Figure 6: LCD display showing various battery statuses, including charging and error detection.

This image provides a close-up of the LCD screen, showing battery icons indicating different charge levels (e.g., <33%, <66%, 100%) and a "Wrong" indicator for a detected non-rechargeable battery.

3. Charging Process

- The charger will automatically begin charging once batteries are correctly inserted and power is connected.
- Charging time varies depending on battery capacity and initial charge level.
- The charger uses advanced MCU control and ΔV function for optimal charging.

4. Discharge Function

- To activate the discharge function, press and hold the "Charge/Discharge Button" (located on the left side of the LCD screen) for approximately 3 seconds.
- The charger will discharge the batteries to eliminate memory effect, then automatically switch to charging mode once the discharge process is complete.

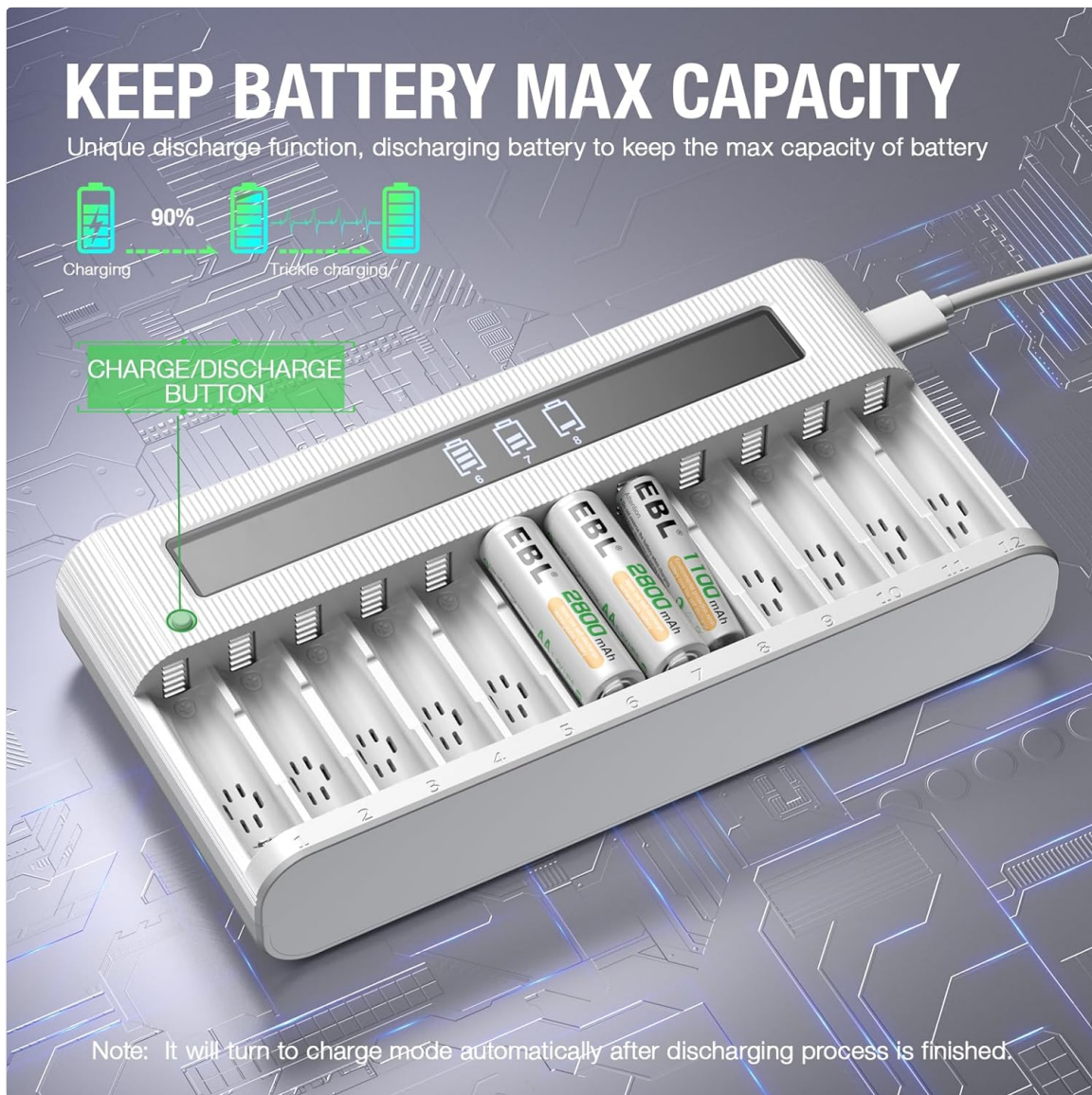


Figure 7: Activating the discharge function to optimize battery capacity.

This image shows the charger with batteries inserted and the "Charge/Discharge Button" highlighted. It visually explains how the discharge function helps maintain maximum battery capacity before charging.

5. Smart Detection

- The charger intelligently detects various battery conditions:
- **Reverse Battery:** If a battery is inserted with incorrect polarity, the LCD will show an error.
- **Damaged/Non-Rechargeable Battery:** The charger will identify and stop charging these types of batteries, displaying an error on the LCD.
- **Fully Charged Battery:** Charging automatically stops when batteries reach full capacity to prevent overcharging.



Figure 8: Smart detection capabilities of the EBL charger.

This image visually demonstrates the charger's smart detection features, showing how it identifies and indicates issues like reverse battery insertion, damaged/non-rechargeable batteries, and confirms fully charged batteries.

MAINTENANCE

- Clean the charger and battery contacts regularly with a dry, soft cloth.
- Store the charger in a cool, dry place when not in use.
- Avoid dropping or subjecting the charger to strong impacts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Charger not powering on.	No power connection or faulty cable.	Check Type-C cable connection and power source. Try a different cable or power adapter.
Battery not charging (LCD shows "Wrong" or no animation).	Incorrect battery type, damaged battery, reverse polarity, or poor contact.	Ensure battery is Ni-MH/Ni-CD. Check polarity. Clean battery contacts. Replace damaged batteries.
Batteries overheating.	Faulty battery or poor ventilation.	Remove the battery immediately. Ensure adequate ventilation around the charger.

SPECIFICATIONS

Feature	Detail
Model	FY-1209
Compatible Battery Types	Ni-MH, Ni-CD (AA, AAA)
Input	5V/2A (Type-C)
Output Voltage	1.2V (DC)
Number of Slots	12 Independent Slots
Product Dimensions	8.07 x 10.6 x 4.5 inches
Item Weight	10.2 ounces
Safety Certifications	UL, CE, RoHS

WARRANTY AND SUPPORT

EBL products come with a standard warranty. For detailed warranty information, technical support, or customer service inquiries, please refer to the official EBL website or contact their customer support directly. Please retain your purchase receipt for warranty claims.

Related Documents - FY-1209

	<p>EBL FY-809 Battery Charger User Guide</p> <p>User guide for the EBL FY-809 battery charger, detailing specifications, charging times, usage instructions, safety warnings, and warranty for AA and AAA rechargeable batteries.</p>
<p>Preview</p>	<p>EBL Universal LCD Battery Charger User Manual</p> <p>User manual for the EBL Universal LCD Display Battery Charger with Discharge Function, compatible with AA, AAA, C, and D Ni-MH/Ni-CD rechargeable batteries.</p>
	<p>EBL FY-819 Smart LCD Battery Charger User Manual</p> <p>Comprehensive user manual for the EBL FY-819 Smart LCD Battery Charger, detailing features, specifications, operation, and safety precautions for AA and AAA Ni-MH/Ni-CD rechargeable batteries.</p>
	<p>EBL-C802 Smart Battery Charger User Manual for AA, AAA, and 9V Rechargeable Batteries</p> <p>Official user manual for the EBL-C802 smart battery charger. Provides detailed instructions on charging AA, AAA, and 9V Ni-MH/Ni-CD rechargeable batteries, including specifications, features, safety warnings, troubleshooting, and FAQs.</p>
	<p>EBL AA AAA Battery Charger User Manual & Product Overview</p> <p>Detailed user manual and product overview for the EBL AA/AAA Ni-MH/Ni-CD battery charger (models LN-6907, LN-6417). Includes safety instructions, usage guide, specifications, and cautions.</p>
	<p>EBL Battery Charger User Manual - AA/AAA Ni-MH/Ni-CD Charging Guide</p> <p>Comprehensive user manual for the EBL battery charger. Learn how to safely charge AA/AAA Ni-MH/Ni-CD batteries and USB devices. Includes specifications, instructions, and safety precautions.</p>