

EBL C9008

EBL C9008 LCD 8-Bay Ni-MH AA AAA C D Battery Charger Instruction Manual

Model: C9008

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient use of your EBL C9008 LCD 8-Bay Ni-MH Battery Charger. Please read this manual thoroughly before operating the device and retain it for future reference. The EBL C9008 is designed to charge Ni-MH AA, AAA, C, and D rechargeable batteries. It features independent charging channels, an LCD display for status indication, and multiple safety protections.

2. IMPORTANT SAFETY INSTRUCTIONS

To prevent injury or damage to the charger and batteries, always follow these safety precautions:

- Only charge Ni-MH rechargeable batteries. Do not attempt to charge non-rechargeable batteries (e.g., alkaline, lithium-ion flat top, zinc batteries) as this may lead to leakage, rupture, or explosion.
- Use only a 5V/2A USB power adapter. Do not use a 1.0A adapter or lower, as this may affect charging performance. The adapter is not included with the charger.
- Ensure correct battery polarity (+/-) when inserting batteries into the charger slots. Incorrect insertion can cause damage.
- Do not disassemble or modify the charger.
- Avoid exposing the charger to rain, moisture, or extreme temperatures.
- Keep the charger away from children and pets.
- Unplug the charger from the power source when not in use or before cleaning.
- The charger features advanced safety protections including over-heat, over-current, short-circuit protection, and defective battery detection. If an "ERROR" message appears, remove the battery and inspect it.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- EBL C9008 Battery Charger

- Micro USB Cable
- Instruction Manual

Note: A 5V/2A USB power adapter is required but not included.

4. PRODUCT OVERVIEW

The EBL C9008 charger is designed for versatility and ease of use. It features:

- **8 Independent Charging Bays:** Allows charging of 1 to 8 AA/AAA batteries or 1 to 4 C/D batteries simultaneously.
- **LCD Display:** Provides real-time charging status for each battery.
- **Dual Input Ports:** Micro USB and Type-C input for flexible power connection.
- **Multiple Protection Features:** Ensures safe charging with over-charge, over-current, over-voltage, over-heat, and short-circuit protection.



Figure 1: Top-down view of the EBL C9008 8-Bay Battery Charger, showing the LCD screens and eight charging slots.

Multiple Protection Technology

Advanced MCU control and ΔV function, over-heat and over-current protection, short-circuit protection, and defective battery detection



Over-Charge



Over-Current



Over-Voltage



Over-heat



Short-Circuit



Figure 2: Diagram illustrating the multiple protection features of the EBL C9008 charger, including over-charge, over-current, over-voltage, over-heat, and short-circuit protection.

5. SETUP

1. **Connect Power:** Connect the provided Micro USB cable to either the Micro USB input port or the Type-C input port on the charger.
2. **Power Source:** Plug the other end of the USB cable into a 5V/2A USB power adapter (not included) and then into a wall outlet.
3. **Power On:** The LCD screens on the charger will briefly illuminate, indicating it is ready for use.



Two Different Charging Ways - More Convenient

Various charging options available, improving adaptability to different cables

Note:Please use only one input (Type C/ Micro USB) when charging batteries
Fit for 2.0A adapter only, DO NOT use 1.0A adapter

Figure 3: Close-up view of the EBL C9008 charger's side, showing both the Micro USB and Type-C input ports for power connection.

6. OPERATING INSTRUCTIONS

6.1 Inserting Batteries

1. Ensure the battery type is Ni-MH and matches the charger's compatibility (AA, AAA, C, D).
2. Insert batteries into the charging slots according to their polarity (+ and -). The spring-loaded negative terminal allows for easy insertion and secure fit.
3. The charger supports mixed charging, allowing different battery types (AA, AAA, C, D) to be charged simultaneously in their respective slots.

Mixed Charging Technology and Individual Slots

Mixed charging function available, can charge AA, AAA, C and D rechargeable batteries at the same time



Figure 4: The EBL C9008 charger with a mix of AA, AAA, C, and D batteries inserted into their respective slots, demonstrating its mixed charging capability.

Universal Charger, Wide Compatibility

Ultra fit for Ni-MH Batteries



Please note: Do not charge non-rechargeable batteries, such as, alkaline batteries, Li-ion batteries, Zinc batteries and etc.

Figure 5: The EBL C9008 charger shown with individual AA, AAA, C, and D batteries, highlighting its universal compatibility for these Ni-MH battery types.

6.2 Understanding the LCD Display

The smart LCD screen indicates the charging status for each individual battery:

- **"CHG"**: Indicates the battery is currently charging. The battery icon will show segments filling up.
- **Full Battery Icon**: A static, full battery icon indicates the battery is fully charged. The charger will automatically switch to trickle charge.
- **"ERROR"**: Indicates a damaged battery, incorrect battery type (non-rechargeable), or improper installation. Remove the battery and inspect it.

LCD Screens Intelligently Indicate Batteries Status

Very easy to monitor batteries' charging status, and detect whether batteries are broken or not

LCD Indicator	CHG			ERROR
Status	Charging	Fully Charged	Charging Process	Batteries Wrongly Install/Broken Batteries



Figure 6: Close-up of the EBL C9008's LCD screens, displaying various charging statuses such as "CHG" (charging), full battery icon (fully charged), and "ERROR" (battery issue).

6.3 Charging Process

Once batteries are correctly inserted and the charger is powered, the charging process begins automatically. The charger uses intelligent control and ΔV function to optimize charging and prevent overcharging. When batteries are nearly full, the charger automatically switches to trickle charge to maintain battery health.

Charging times vary depending on battery capacity and the number of batteries being charged. Larger batteries (C/D) and a higher number of batteries will generally require more time.

7. MAINTENANCE

- **Cleaning:** Disconnect the charger from the power source 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 away from direct sunlight and moisture when not in use.
- **Screen Protector:** The charger comes with a fine screen protector film to prevent scratches during transportation. You may remove it before use if desired.



Figure 7: A close-up image showing the protective film on the LCD screen of the EBL C9008 charger, which can be peeled off before use.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	No power connection or faulty adapter/cable.	Ensure the USB cable is securely connected to both the charger and the power adapter. Verify the power adapter is plugged into a working wall outlet. Confirm the power adapter is 5V/2A. Try a different USB cable or power adapter.

Problem	Possible Cause	Solution
"ERROR" displayed on LCD for a battery.	Damaged battery, non-rechargeable battery, or incorrect insertion.	Remove the battery and check its type. Ensure it is a Ni-MH rechargeable battery. Re-insert the battery, ensuring correct polarity (+/-). If the error persists, the battery may be damaged or defective and should not be used.
Batteries charging slowly.	High capacity batteries (C/D), many batteries charging simultaneously, or adapter not 2A.	Charging time is proportional to battery capacity; C and D batteries naturally take longer. Charging more batteries simultaneously distributes the available current, increasing overall charge time per battery. Ensure your USB power adapter provides 5V/2A output.

9. SPECIFICATIONS

Feature	Detail
Model Number	C9008
Compatible Battery Types	Ni-MH AA, AAA, C, D
Input	Micro USB / Type-C, 5V/2A
Output Voltage	1.2 Volts
Product Dimensions	6.3 x 5.1 x 1.8 inches (16.0 x 13.0 x 4.6 cm)
Item Weight	0.01 ounces (approximately 0.28 grams)
Manufacturer	EBL
Date First Available	September 20, 2019

10. WARRANTY AND SUPPORT

EBL products are designed and manufactured to high-quality standards. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided with your purchase or visit the official EBL website.

Please retain your proof of purchase for warranty claims.

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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.

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