

MiBOXER C4-12

MiBOXER C4-12 Rechargeable Battery Charger User Manual

1. INTRODUCTION

The MiBOXER C4-12 is an advanced four-slot smart charger designed for a wide range of rechargeable batteries. It features independent charging channels, automatic battery type detection, and multiple safety protections. This manual provides essential information for the safe and efficient operation of your C4-12 charger.

2. SAFETY INSTRUCTIONS

- Read this manual carefully before first use.
- Do not attempt to charge non-rechargeable batteries.
- Use only the provided power adapter.
- Do not disassemble, modify, or short-circuit the charger.
- Keep the charger away from water, moisture, high temperatures, and direct sunlight.
- Ensure proper ventilation during charging. Do not cover the charger.
- Supervise the charging process, especially when charging new or unfamiliar battery types.
- If any abnormality occurs, unplug the charger immediately.

3. PACKAGE CONTENTS

- 1 x MiBOXER C4-12 Battery Charger
- 1 x Power Adapter (DC 12V 5A)
- 1 x User Manual

4. PRODUCT FEATURES

- **Four Independent Charging Slots:** Each slot operates independently, allowing simultaneous charging of different battery types and sizes.
- **High Charging Current:** Up to 3.0A charging current per slot, enabling rapid charging of high-capacity batteries.
- **Wide Compatibility:** Supports various Li-ion (4.2V/4.35V) and Ni-MH/Ni-Cd (1.48V) battery sizes, including 10340 to 26650 for Li-ion, and AAAA, AAA, AA, A, SC, C, D for Ni-MH/Ni-Cd.
- **Intelligent Detection:** Automatically identifies battery type (Li-ion, Ni-MH, Ni-Cd) and selects the optimal charging mode.
- **Advanced Display:** Provides real-time information such as charging current, voltage, capacity, internal resistance, and charging time.
- **Temperature Monitoring:** Automatically detects battery temperature to prevent overheating.
- **0V Activation:** Capable of activating deeply discharged Li-ion batteries.
- **Safety Protections:** Features over-charge, over-discharge, short-circuit, and reverse polarity protection.
- **Durable Construction:** Made from fire-resistant PC and ABS materials.

C4-12 SMART CHARGER

4 slot charging 3.0A simultaneously

-  Automatically match the best charging current, according to the characteristics of the battery
-  Automatically detect the battery temperature
-  Calculate the battery capacity automatically
-  Automatically calculate the battery percentage
-  Automatically recognize Li-ion battery (4.2V) Ni-MH / Ni-Cd (1.48V)
-  Automatically activate "0V" lithium battery
-  Detect the battery internal resistance automatically
-  Automatically accumulates the charging time



Image: The MiBOXER C4-12 charger highlighting its automatic functions, including optimal current matching, temperature detection, battery capacity calculation, percentage display, automatic battery recognition, 0V activation, internal resistance

Wide Compatible, Convenient Choice

Li-ion(4.2V/4.35V) / LiFePO4 / IMR/INR/ICR

10340 | 10350 | 10440 | 10500 | 12340 | 12500 | 12650 | 13450 | 13500 | 13650 | 14350 | 14430
14500 | 14650 | 16500 | 16340(RCR123) | 16650 | 17350 | 17500 | 17650 | 17670 | 18350 | 18490
18500 | 18650 | 18700 | 20700 | 21700 | 22500 | 22650 | 25500 | 26500 | 26650

Ni-MH/Ni-Cd(1.48V)

A | AA | AAA | AAAA | C | SC



Image: The MiBOXER C4-12 charger showcasing its broad compatibility with numerous Li-ion battery sizes (from 10340 to 26650) and Ni-MH/Ni-Cd battery types (AAAA, AAA, AA, A, C, D).

5. SPECIFICATIONS

Parameter	Value
Model	C4-12
Input Voltage/Current	DC 12V / 5A
Output Voltage (Li-ion)	4.2V $\pm$ 0.1%
Output Voltage (Ni-MH/Ni-Cd)	1.48V $\pm$ 0.1%

Output Current (Li-ion)	Max 4 x 3A
Output Current (Ni-MH/Ni-Cd)	Max 4 x 1A
Compatible Li-ion Batteries	10340, 10350, 10440, 10500, 12340, 12500, 12650, 13450, 13500, 13650, 14350, 14430, 14500, 14650, 16500, 16340 (RCR123), 16650, 17350, 17500, 17650, 17670, 18350, 18490, 18500, 18650, 18700, 20700, 21700, 22500, 22650, 25500, 26500, 26650
Compatible Ni-MH/Ni-Cd Batteries	AAAA, AAA, AA, A, SC, C, D
Number of Slots	4
Material	PC + ABS (Fire-resistant)
Weight	485 Grams
Dimensions	16.2 cm (Length, other dimensions not specified)

6. SETUP

1. **Unpack the Charger:** Carefully remove the C4-12 charger and its accessories from the packaging.
2. **Connect Power:** Insert the DC plug of the provided power adapter into the input port on the back of the charger. Plug the other end of the power adapter into a suitable wall outlet (100-240V AC).
3. **Initial Display:** The charger's display will illuminate, indicating it is powered on and ready for use.



Image: The MiBOXER C4-12 smart charger shown alongside its power adapter, ready for connection.

7. OPERATING INSTRUCTIONS

- 1. Insert Batteries:** Insert one or more rechargeable batteries into the charging slots. Ensure the positive (+) and negative (-) terminals of the battery match the markings on the charger. The charger will automatically detect the battery type and begin charging.
- 2. Monitor Display:** The LCD screen will show real-time charging status for each slot, including voltage, current, charged capacity (mAh), internal resistance, and charging time.
- 3. Select Slot Information:** Press the **SLOT** button to cycle through the detailed information for each individual charging slot.
- 4. Adjust Charging Parameters (Manual Mode):**
 - While a battery is charging, press the **SLOT** button to select the desired slot.
 - Press and hold the **MODE** button for a few seconds to enter manual setting mode.
 - Press the **MODE** button repeatedly to cycle through adjustable parameters (e.g., charging current).
 - Use the **SLOT** button to change the value of the selected parameter.
 - Once settings are adjusted, the charger will resume charging with the new parameters.

5. **Charging Completion:** The charger will automatically stop charging when the batteries are fully charged. The display will indicate completion.
6. **Remove Batteries:** Once charging is complete, remove the batteries from the slots.



Image: The MiBOXER C4-12 charger with four batteries inserted into its slots, demonstrating its multi-slot charging capability.

C4-12 SMART CHARGER

Charger battery application

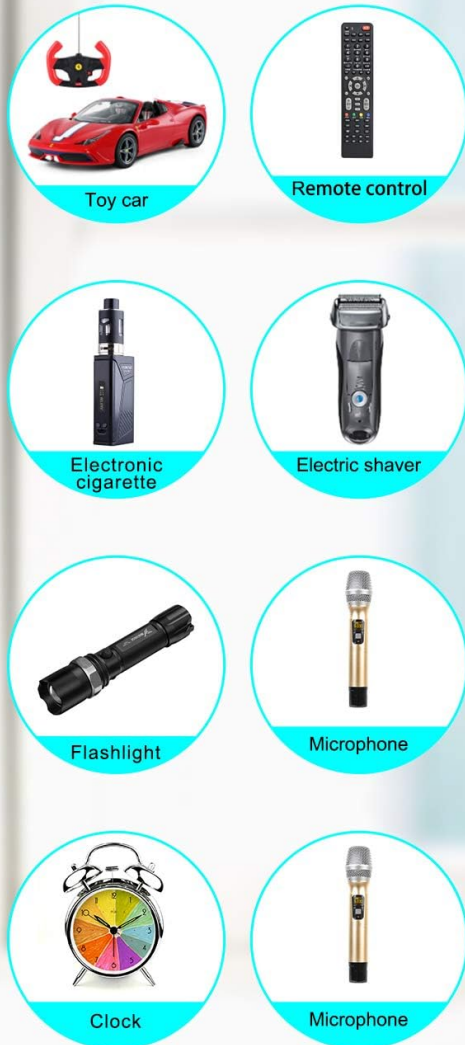


Image: The MiBOXER C4-12 smart charger illustrating its versatility by showing various devices that use the types of batteries it can charge, such as toy cars, remote controls, electronic cigarettes, electric shavers, flashlights, and microphones.

8. MAINTENANCE

- **Cleaning:** Disconnect the charger from power before cleaning. Use a soft, dry cloth to wipe the surface of the charger. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and moisture.
- **Avoid Impact:** Do not drop or subject the charger to heavy impact.

9. TROUBLESHOOTING

- **Charger Not Powering On:**
 - Ensure the power adapter is securely connected to both the charger and the wall outlet.
 - Verify the wall outlet is functional.
- **Battery Not Charging:**

- Check if the battery is inserted with correct polarity (+/-).
 - Ensure the battery is a compatible rechargeable type.
 - Clean the battery contacts and charger contacts if they appear dirty.
 - The battery might be deeply discharged (0V activation should attempt to revive it, but some batteries may be beyond recovery).
- **Error Message on Display:**
 - Refer to the specific error code (if displayed) in the full user manual for detailed instructions.
 - Often indicates a battery fault (e.g., short circuit, over-voltage) or incorrect battery insertion. Remove and re-insert the battery.
 - **Charger or Battery Getting Hot:**
 - Some warmth is normal during charging. However, if it becomes excessively hot, immediately remove the battery and unplug the charger.
 - Ensure adequate ventilation around the charger.

10. WARRANTY AND SUPPORT

The MiBOXER C4-12 charger comes with a **3-year warranty**. For any quality issues, operational questions, or technical support, please contact MiBOXER customer service. We are committed to providing 100% satisfaction and support for our products.