

XCell 141863

XCell BC-X4000 Fast Charger User Manual

Model: BC-X4000 (Item No. 141863)

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your XCell BC-X4000 Fast Charger. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage. The XCell BC-X4000 is designed for charging 1.2V Ni-MH/Ni-Cd and 3.7V Li-Ion rechargeable batteries.

2. SAFETY INSTRUCTIONS

- Use the charger only for the specified battery types: 1.2V Ni-MH/Ni-Cd and 3.7V Li-Ion. Charging other battery types may cause explosion, rupture, or leakage, leading to personal injury or property damage.
- Do not attempt to charge non-rechargeable batteries.
- Ensure the charger is connected to a power outlet within the specified voltage range (100-240V).
- Do not expose the charger to rain, moisture, or extreme temperatures.
- Avoid short-circuiting the battery terminals.
- Keep the charger away from children and pets.
- Do not disassemble or modify the charger. Refer all servicing to qualified personnel.
- If the charger or batteries become excessively hot during charging, discontinue use immediately and unplug the charger.
- Always place the charger on a stable, non-flammable surface during operation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x XCell BC-X4000 Fast Charger with LCD Display
- 1 x Power Supply (100-240V)
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The XCell BC-X4000 is a multi-functional battery charger featuring four independent charging slots and an LCD display for monitoring charging status.



Figure 1: Angled view of the XCell BC-X4000 Fast Charger, showing the four battery slots and the LCD display with current selection buttons.



Figure 2: Front view of the XCell BC-X4000 Fast Charger, highlighting the LCD display showing charging current options (300mA, 500mA, 700mA, 1000mA) and control buttons (CURRENT, DISPLAY, MODE).

Components:

- **Battery Slots (1-4):** Independent slots for charging individual batteries.
- **LCD Display:** Shows charging status, current, voltage, capacity, and time for each slot.
- **CURRENT Button:** Selects the charging current (300mA, 500mA, 700mA, 1000mA).
- **DISPLAY Button:** Cycles through display information for the selected slot.
- **MODE Button:** Selects charging mode (Charge, Refresh).
- **Power Input:** Connects to the external power supply.

5. SETUP

1. Place the XCell BC-X4000 charger on a flat, stable, and heat-resistant surface.
2. Connect the provided power supply to the power input port on the charger.
3. Plug the power supply into a standard electrical outlet (100-240V AC). The LCD display will illuminate, indicating the charger is ready.

6. OPERATING INSTRUCTIONS

6.1. Inserting Batteries

Carefully insert one to four rechargeable batteries into the charging slots, ensuring correct polarity (+/-). The charger will automatically detect the battery type (Ni-MH/Ni-Cd or Li-Ion) and display initial information on the LCD.

6.2. Selecting Charging Current

After inserting a battery, the charger will default to a charging current. To change the current:

1. Press the **CURRENT** button repeatedly to cycle through available charging currents: 300mA, 500mA, 700mA, 1000mA.
2. Select a charging current appropriate for your battery's capacity. Higher currents charge faster but may generate more heat. Lower currents are generally safer for smaller capacity batteries and can extend battery life. The maximum charging current is 1500mA, but user-selectable options are 300/500/700/1000mA.
3. The selected current will be applied to the active slot. Each slot can be set independently.

6.3. Understanding the LCD Display

The LCD display provides real-time information for each charging slot. Press the **DISPLAY** button to cycle through different information for the currently selected slot, such as:

- **Charge Current (mA):** The current rate at which the battery is being charged.
- **Voltage (V):** The current voltage of the battery.
- **Capacity (mAh):** The accumulated charge capacity.
- **Time (h:mm):** The elapsed charging time.

6.4. Refresh Function

The refresh function can help to restore older Ni-MH/Ni-Cd batteries that have developed a "memory effect" or lost capacity. This function typically involves discharging the battery completely before recharging it.

1. Insert the battery into a slot.
2. Press the **MODE** button to select the "Refresh" mode.
3. The charger will begin the refresh cycle. This process can take several hours depending on the battery's condition.

6.5. Battery Defect Detection

The XCell BC-X4000 features automatic detection of defective batteries. If a battery is inserted and detected as faulty, the charger will display an error message (e.g., "NULL" or "ERR") for that slot and will not initiate charging. Remove and dispose of defective batteries responsibly.

7. MAINTENANCE

- **Cleaning:** Disconnect the charger from the power supply before cleaning. Use a soft, dry cloth to wipe the exterior. 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.
- **Battery Contacts:** Periodically check the battery contacts in the slots for dirt or corrosion. Clean gently with a cotton swab if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	No power connection; faulty power supply.	Ensure power supply is securely connected to both the charger and the wall outlet. Test the outlet with another device.
Battery not charging.	Incorrect battery insertion; defective battery; wrong battery type.	Re-insert battery ensuring correct polarity. Check if the battery is defective (LCD shows error). Ensure it's a rechargeable Ni-MH/Ni-Cd or Li-Ion battery.
LCD shows "NULL" or "ERR".	Defective battery; non-rechargeable battery.	Remove the battery. If it's a rechargeable battery, it may be faulty and needs replacement. Do not attempt to charge non-rechargeable batteries.
Charger or batteries get hot.	High charging current; poor ventilation; faulty battery.	Reduce charging current. Ensure adequate ventilation around the charger. Remove any excessively hot batteries immediately.

9. SPECIFICATIONS

Model:	BC-X4000 (Item No. 141863)
Input Power Supply:	100-240 V AC
Compatible Battery Types:	Ni-MH (1.2V), Ni-Cd (1.2V), Li-Ion (3.7V)

Supported Battery Sizes:	AAA, AA, A, SC, C, 26650, 26700, 26500, 18650, 18700, 18490, 18500, 17500, 16340/CR123A, 14500
Selectable Charging Currents:	300mA, 500mA, 700mA, 1000mA (Max. 1500mA)
Output Voltage:	1.2V / 3.7V (automatic detection)
Dimensions (L x W x H):	157 x 92 x 33 mm (6.18 x 3.62 x 1.3 inches)
Item Weight:	365g (Net), 458g (Gross) / 15.5 ounces (approx.)
Manufacturer:	XCell

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact XCell customer service directly. Details are typically available on the manufacturer's official website or through your retailer.

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