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› EdisonBright Fenix ARE-C1+ Universal Smart Digital Display Battery Charger Instruction Manual

## EdisonBright ARE-C1+

# EdisonBright Fenix ARE-C1+ Universal Smart Digital Display Battery Charger

## INSTRUCTION MANUAL

### 1. Introduction

Thank you for choosing the EdisonBright Fenix ARE-C1+ Universal Smart Digital Display Battery Charger. This device is designed for efficient and safe charging of various rechargeable battery types. It features a high-definition LCD screen for clear display of charging status and battery levels, and supports both AC and DC power inputs. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your charger and batteries.



Image 1.1: Fenix ARE-C1+ Smart Battery Charger, compatible with different battery types.

### 2. Safety Information





Batteries shown for illustration purpose only.  
Please see description for actual content of this bundle.

Image 3.2: The included EdisonBright BBX Battery Carrying Case. Batteries shown are for illustration purposes only and are not included.

## 4. Product Overview

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The Fenix ARE-C1+ is a dual-channel smart charger equipped with an LCD screen to display charging information. It is compatible with various Li-ion and Ni-MH/Ni-Cd batteries and features a built-in multi-protection circuit for enhanced safety.

- **High-Definition LCD Screen:** Displays battery type, voltage, and charging status.
- **Dual Channels:** Two independent charging channels controlled by separate buttons (A and B).
- **AC and DC Charging:** Supports both household AC power and vehicle DC power (DC cable sold separately).
- **Multi-Protection Circuit:** Integrated safeguards against overcharge, over-discharge, short-circuit, and reverse polarity.



Image 4.1: Fenix ARE-C1+ Smart Battery Charger with key features: compatible with different battery types, LCD screen for charging display, supports AC and DC charging, and built-in multi-protection circuit.

## 5. Setup

To set up your Fenix ARE-C1+ charger:

1. Connect the provided AC charging cable to the charger's input port.
2. Plug the other end of the AC charging cable into a standard wall outlet (AC100-240V).
3. Alternatively, for DC charging, connect an optional DC car adapter (not included) to the charger's input port and then to your vehicle's 12-24V power outlet.
4. The LCD screen will illuminate, indicating the charger is powered on.



Image 5.1: The Fenix ARE-C1+ charger supports both AC and DC charging. The AC cable is included, while the car adapter is sold separately.

## 6. Operating Instructions

Follow these steps to charge your batteries:

1. **Insert Batteries:** Carefully insert one or two compatible rechargeable batteries into the charging slots. Ensure the positive (+) and negative (-) terminals of the batteries align correctly with the charger's markings.
2. **LCD Display:** Once batteries are inserted and the charger is powered, the LCD screen will automatically display the inserted battery types and their current voltages. A status bar will indicate the battery level.
3. **Monitor Charging:** The two channels (A and B) are controlled separately. Single-click the corresponding button (A or B) to cycle through displayed information for that channel: battery voltage, charging current, and charging time.
4. **Turn Off LCD:** Long press any button to turn off the LCD screen. Single-click again to turn it back on. Note: Battery levels will not be displayed without power supply connected.
5. **Charging Completion:** The charger will automatically stop charging when the batteries are fully charged. The LCD display will indicate a full charge.
6. **Remove Batteries:** Once charging is complete, remove the batteries from the charger.



Image 6.1: The Fenix ARE-C1+ LCD screen displays inserted battery types, voltages, and battery levels via a status bar. Buttons A and B control each channel separately, allowing users to cycle through voltage, current, and charging time information.

## 7. Compatible Battery Types

The Fenix ARE-C1+ charger is compatible with the following rechargeable battery types:

- **Li-ion:** 26650, 18650, 16340, 14500, 10440
- **Ni-MH/Ni-Cd:** AA, AAA, C



Image 7.1: Examples of compatible battery types, including Li-ion (26650, 18650, 16340, 14500, 10440) and Ni-MH/Ni-Cd (AA, AAA, C).

## 8. Maintenance

To ensure optimal performance and longevity of your charger:

- Clean the charger's contacts and body with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the charger in a cool, dry place when not in use, away from direct sunlight and extreme temperatures.
- Avoid dropping or subjecting the charger to strong impacts.

## 9. Troubleshooting

If you encounter issues with your Fenix ARE-C1+ charger, refer to the following:

- **Charger not powering on:** Ensure the AC cable is securely connected to both the charger and the power outlet. Check if the outlet is functional.
- **Battery not charging:** Verify that the battery is inserted with correct polarity. Ensure the battery type is compatible with the charger. Try cleaning the battery and charger contacts.
- **LCD display not working:** If the screen is off, single-click any button to turn it back on. If it remains off, check power connection.
- **Unusual heat or smell:** Immediately unplug the charger and remove batteries. Do not continue use. Contact customer support.

For further assistance, please refer to the Warranty and Support section.

## 10. Specifications

Feature	Specification
Input	AC100-240V/50-60Hz/0.35A (max) or DC12-24V/1A (max)

Feature	Specification
Output (Li-ion)	4.2V, 1.0A (for 18650, 26650, 16340, 14500, 10440)
Output (Ni-MH/Ni-Cd)	1.5V, 1.0A (for AA, AAA, C)
Rated Output Power	3W (Ni-MH/Ni-Cd), 8.4W (Li-ion)
Dimensions (Length x Width x Height)	145mm x 75mm x 38.5mm (5.7 x 2.9 x 1.5 inches)
Weight	178g (6.3 ounces) (Excluding charging cable)
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Operating Humidity	5% to 90%
Storage Temperature	-20°C to 85°C (-4°F to 185°F)



Image 10.1: Fenix ARE-C1+ Smart Battery Charger with detailed specifications.

## 11. Warranty and Support

This product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official EdisonBright or Fenix website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact EdisonBright customer service through their official channels.

You can find more information and contact details by visiting the [EdisonBright Store on Amazon](#).