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› EdisonBright Fenix ARE-A2 Smart Battery Charger User Manual

EdisonBright ARE-A2

EdisonBright Fenix ARE-A2 Smart Battery Charger User Manual

Model: ARE-A2 | Brand: EdisonBright

INTRODUCTION

This manual provides instructions for the safe and efficient operation of your EdisonBright Fenix ARE-A2 Smart Battery Charger. This dual-channel charger is designed for various Li-ion and Ni-MH/Ni-Cd rechargeable batteries, featuring an LCD screen for charging status and multiple protection mechanisms.

PACKAGE CONTENTS

Verify that all items are present in the package:

- ARE-A2 Dual Channel Battery Charger
- AC Charging Cable
- User Manual (this document)

Note: Batteries are not included with the charger. The EdisonBright BBX5 battery carry case is a bundled item and may be included depending on your purchase.

PRODUCT FEATURES



- ◎ Input: AC100-240V/50-60Hz/0.35A (max) or DC12-24V / 1A (max)
- ◎ Rated output power: 3W (Ni-MH/ Ni-Cd), 8.4W (Li-ion)
- ◎ Output: 4.2V/1.0A : 10440, 14500, 16340, 18650, 21700, 26650 Li-ion battery. 1.5V, 1.0A : AA, AAA, C Ni-MH / Ni-Cd battery
- ◎ Size: 5.87" Length × 2.95" Width × 1.59" Height / 149 x 75 x 40.5 mm
- ◎ Weight: 6.28 oz /178g (excluding charging cable)
- ◎ Operating temperature: -20°C to 50°C
- ◎ Operating Humidity: 5% to 90%
- ◎ Storage Temperature: -20°C to 80°C
- ◎ UL, PSE, GS, FCC, CE, RoHS, WEEE, CB

Image: The Fenix ARE-A2 charger, AC charging cable, and user manual as typically included in the package. An EdisonBright BBX5 battery carry case is also shown.

PRODUCT OVERVIEW

The Fenix ARE-A2 is a smart charger designed for efficient and safe charging of various battery types. It features two independent charging channels and an LCD display.



ARE-A2

DUAL-CHANNEL CHARGER

- Compatible with different battery types
- Multiple protection
- LCD screen for charging display
- AC and DC charging supported



Image: Front view of the Fenix ARE-A2 Dual-Channel Charger, highlighting its LCD screen and two battery slots labeled A and B.

Key Features:

- Dual-channel charging: Charge one or two batteries simultaneously.
- LCD screen display: Provides real-time charging status and battery level.
- AC and DC charging support: Versatile power input options.
- Multiple protection features: Includes short-circuit, over-current, over-voltage, and reverse polarity protection.

COMPATIBLE BATTERY TYPES

The ARE-A2 charger is compatible with a wide range of rechargeable batteries:

- **Li-ion Batteries:** 10440, 14500, 16340, 18650, 21700, 26650
- **Ni-MH / Ni-Cd Batteries:** AA, AAA, C

1 CHARGER FOR 9 BATTERY TYPES

Compatible with kinds of battery types, two batteries can be charged simultaneously

Li-ion batteries: 10440, 14500, 16340, 18650, 21700, 26650

Ni-MH / Ni-Cd: AA, AAA, C



Image: An illustration showing different sizes of Li-ion (10440, 14500, 16340, 18650, 21700, 26650) and Ni-MH/Ni-Cd (AA, AAA, C) batteries, indicating their compatibility with the charger.

SETUP INSTRUCTIONS

1. Connect Power:

Connect the supplied AC charging cable to the charger and then plug it into a standard AC wall outlet (100-240V/50-60Hz). Alternatively, for DC charging, connect an optional 12V C cable (not included) to the charger and a compatible DC power source (12-24V).

SUPPORT AC AND DC CHARGING CONVENIENT CHARGING IN A CAR

Supports AC100-240V/50-60hz and DC12-24V
Charging can be fulfilled both at home and in a car
Keep a ready battery anytime



Note: Car adapter sold separately

Image: The Fenix ARE-A2 charger connected to a car's DC power outlet, demonstrating its car charging capability. Note that the car adapter is sold separately.

2. Insert Batteries:

Carefully insert one or two compatible rechargeable batteries into the charging slots. Ensure correct polarity (+ and -) as indicated on the charger and the batteries. The charger will automatically detect the battery type and begin charging.

Fenix ARE-A2

is a dual channel smart charger, which is compatible with types of Li-ion and Ni-MH/Ni-Cd batteries. High-definition LCD screen displays the charging status and battery level clearly. In addition, car charging mode offers high convenience for users.



Image: The Fenix ARE-A2 charger with two batteries inserted into its slots. The LCD display shows charging information for both batteries, indicating the charging process is active.

OPERATING INSTRUCTIONS

LCD Display Information:

The LCD screen provides real-time information about the charging process for each channel (A and B):

- **Battery Type:** Indicates whether the inserted battery is Li-ion or Ni-MH/Ni-Cd.
- **Voltage:** Displays the current voltage of the battery.
- **Charging Status:** Shows the progress of the charge.

Charging Process:

- Once batteries are inserted, the charger automatically begins charging.
- The LCD display will show the charging status.
- Charging is complete when the display indicates a full charge or the battery voltage reaches its maximum.

SAFETY FEATURES

The Fenix ARE-A2 charger incorporates multiple protection mechanisms to ensure safe operation:

- **Short-Circuit Protection:** Prevents damage from short circuits.
- **Over-Current Protection:** Safeguards against excessive current flow.
- **Over-Voltage Protection:** Protects batteries from being charged at too high a voltage.

- **Reverse Polarity Protection:** Prevents damage if batteries are inserted incorrectly.

MAINTENANCE

- Keep the charger clean and dry. Use a soft, dry cloth to wipe the surface.
- Avoid exposing the charger to extreme temperatures or humidity.
- Do not attempt to disassemble or modify the charger, as this will void the warranty and may cause damage or injury.
- Store the charger in a cool, dry place when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	No power supply; loose cable connection.	Ensure AC cable is securely plugged into both the charger and the wall outlet. Verify the outlet has power.
Battery not charging.	Incorrect battery insertion; incompatible battery type; faulty battery.	Check battery polarity. Confirm battery type is listed as compatible. Try a different battery to rule out a faulty battery.
LCD display shows an error.	Short-circuit, over-voltage, or reverse polarity detected.	Remove the battery, check for correct insertion and any visible damage. Reinsert carefully. If the error persists, the battery may be faulty.

SPECIFICATIONS

Feature	Detail
Input	AC100-240V/50-60Hz/0.35A (max) or DC12-24V/1A (max)
Output (Li-ion)	4.2V/1.0A for 10440, 14500, 16340, 18650, 21700, 26650 batteries
Output (Ni-MH/Ni-Cd)	1.5V/1.0A for AA, AAA, C batteries
Rated Output Power	3W (Ni-MH/Ni-Cd Batteries), 8.4W (Li-ion Batteries)
Dimensions (L x W x H)	5.87 x 2.95 x 1.59 inches (149 x 75 x 40.5 mm)
Weight	6.28 oz. / 178g (excluding charging cable)
Operating Temperature	-20°C to 50°C
Operating Humidity	5% to 90%
Storage Temperature	-20°C to 80°C
Certifications	UL, PSE, GS, FCC, CE, RoHS, WEEE, CB



Image: A visual summary of the Fenix ARE-A2 product features and specifications, including input/output, power, size, weight, and operating conditions.

WARRANTY AND SUPPORT

Specific warranty information for the EdisonBright Fenix ARE-A2 Smart Battery Charger is not provided in this manual. For warranty details, technical support, or service inquiries, please refer to the product packaging or contact EdisonBright customer service directly. You may also visit the official EdisonBright website for further assistance.

Note: Unauthorized disassembly or modification of the product may void the warranty.