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› EdisonBright Fenix ARE-D1 USB Powered Smart Battery Charger User Manual

## EdisonBright ARE-D1

# EdisonBright Fenix ARE-D1 USB Powered Smart Battery Charger

MODEL: ARE-D1 USER MANUAL

## Introduction

The Fenix ARE-D1 is a single-channel smart charger designed for versatility and ease of use. It features both Micro USB charging and USB discharging functions, making it a convenient tool for managing various rechargeable batteries. The charger is compatible with a wide range of Li-ion and Ni-MH/Ni-Cd battery types. Its high-definition LCD screen provides clear information on charging, discharging, and overall battery status. Built-in multi-protection circuits ensure safe operation and extended battery life.



# ARE-D1

## SINGLE CHANNEL SMART CHARGER

- Charging and discharging
- For different battery types
- High-definition LCD screen
- Multiple built-in protection circuit
- 2A large charging current



*Image: Fenix ARE-D1 Smart Charger with key features listed: single channel, charging and discharging, different battery types, high-definition LCD screen, multiple built-in protection circuits, and 2A large charging current.*

# LIGHT WEIGHT AND COMPACT

Only 120 mm in length, and weighing only 61 grams will keep this charger a convenient carry on your travels.



*Image: A hand holding the Fenix ARE-D1 charger, illustrating its lightweight and compact design for portability.*

## Setup

- 1. Connect Power:** Connect the Micro USB cable to the charger's input port and plug the other end into a 5V/2A USB power source (e.g., USB adapter, power bank, computer USB port). For optimal performance, a 5V/2A power adapter is recommended.
- 2. Insert Battery:** Carefully insert a compatible rechargeable battery into the charging slot, ensuring correct polarity (+ and - terminals). The charger will automatically detect the battery type and begin charging.

# ARE-D1



The Fenix ARE-D1 is a single channel smart charger that features Micro USB charging and USB discharging functionality. It is compatible with Li-ion and Ni-MH/Ni-Cd batteries. A high-definition LCD screen clearly displays the charging, discharging and battery status. The chargers also include multiple built-in protection circuits that guarantee charging and general usage is both simple-to-use and safe.



*Image: The Fenix ARE-D1 charger with a battery correctly inserted into the charging slot, showing the LCD screen actively displaying charging information.*

## Operating Instructions

### Charging Batteries

- **Battery Compatibility:** The ARE-D1 supports Li-ion batteries (10440, 14500, 16340, 18650, 21700, 26650) and Ni-MH/Ni-Cd batteries (AAA, AA, C).
- **Charging Current Selection:** The charger offers three charging current options: 0.5A, 1.0A, and 2.0A. Press the button on the charger to cycle through these options. The selected current will be displayed on the LCD screen. For faster charging of high-capacity batteries, select 2.0A.
- **LCD Display:** The high-definition LCD screen displays real-time information including battery level, charging current, voltage, and charging time elapsed.
- **Automatic Detection:** The charger automatically detects the battery type (Li-ion or Ni-MH/Ni-Cd) and applies the appropriate charging algorithm.

# SINGLE CHARGER SUPPORTS MULTIPLE BATTERY TYPES

Fully compatible with frequently used batteries types.

## RECHARGEABLE LI-ION BATTERY:

10440, 14500, 16340, 18650, 21700, 26650.

## NI-MH/NI-CD BATTERY:

AAA, AA, C.



Image: The Fenix ARE-D1 charger shown alongside various compatible battery types, including Li-ion (10440, 14500, 16340, 18650, 21700, 26650) and Ni-MH/Ni-Cd (AAA, AA, C).



## PACKAGE CONTENTS

ARE-D1 charger

Micro USB charging cable

User manual

*Image: The Fenix ARE-D1 charger connected to a power source via Micro USB, illustrating its rapid charging capability with a 2A current and an estimated charging time for a 2600mAh battery.*

### USB Discharging (Power Bank Function)

- The ARE-D1 can function as a power bank. Insert a charged Li-ion battery into the slot.
- Connect an external device (e.g., smartphone) to the USB output port (5V/2A) to charge it. The LCD screen will display discharging status.

### Maintenance

- Keep the charger clean and dry. Avoid exposure to extreme temperatures or humidity.
- Operating temperature range: -20°C to 50°C.
- Operating humidity range: 5% to 90%.
- Storage temperature range: -20°C to 80°C.
- Do not disassemble the charger. Refer to qualified personnel for repairs.

### Troubleshooting

- **Charger not powering on:** Ensure the Micro USB cable is securely connected to both the charger and a functional 5V/2A power source.
- **Battery not charging:** Verify that the battery is inserted with correct polarity. Check if the battery is compatible with the charger. Ensure the battery is not completely depleted beyond recovery.

- **Slow charging:** Confirm that your USB power adapter provides at least 2A output. Some computer USB ports may provide lower current, resulting in slower charging.
- **LCD display issues:** If the display is blank or erratic, try reconnecting the power source. If the issue persists, contact support.

## Specifications

| Feature                              | Detail  |
|--------------------------------------|---|
| Input                                | Micro USB 5V/2A   |
| Rated Output Power                   | 3W (Ni-MH/Ni-Cd), 8.4W (Li-ion)                             |
| Charging Current (Li-ion)            | 0.5A / 1.0A / 2.0A (4.2V/3.65V)                             |
| Charging Current (Ni-MH/Ni-Cd)       | 0.5A / 1.0A (1.5V)  |
| Compatible Li-ion Battery Types      | 10440, 14500, 16340, 18650, 21700, 26650                    |
| Compatible Ni-MH/Ni-Cd Battery Types | AAA, AA, C  |
| USB Output                           | 5V/2A   |
| Display                              | LCD screen for battery level, charging/discharging status   |
| Protection Features                  | Short circuit, over-current, over-voltage, reverse-polarity |
| Dimensions                           | 4.72" x 1.50" x 1.18" (120 x 38 x 30 mm)                    |
| Weight                               | 61±3 grams (excluding charging cable)                       |
| Operating Temperature                | -20°C to 50°C   |
| Operating Humidity                   | 5% to 90%   |
| Storage Temperature                  | -20°C to 80°C   |

# MICRO USB CHARGING - RAPIDLY RECHARGE THE BATTERY

## NUMEROUS WAYS OF POWER INPUT



Standard Micro USB charging port fits USB adapter, power bank and solar panel. Guaranteeing uninterrupted outdoor power supply.

## 2A LARGE CHARGING CURRENT

0.5/1.0/2.0A - three charging current for option, max 2A.  
It takes 1.3 hours to fully charge a Fenix 2600 mAh battery.\*



Max input current



To fully charge a  
2600 mAh Li-ion battery

\*Lab-tested result for reference only.



*Image: The Fenix ARE-D1 charger displayed next to a comprehensive list of its technical specifications, including input/output, battery compatibility, dimensions, and operating conditions.*

## Package Contents

- Fenix ARE-D1 Smart Battery Charger
- Micro USB Charging Cable
- EdisonBright BBX5 Battery Carry Case (for 21700 batteries)
- User Manual

*Note: Batteries are NOT included with this product.*

# SPECIFICATIONS



- ✦ Input: Micro USB 5V/2A charging, from external power source
- ✦ Rated output power: 3W (Ni-MH/Ni-Cd), 8.4W (Li-ion)
- ✦ To charge the battery, the details are as follows:

|               |  |            |
|---------------|--|------------|
| Voltage       | 4.2V / 3.65V                               | 1.5V       |
| Current       | 0.5A/1.0A/2.0A                             | 0.5A/1.0A  |
| Battery Types | 10440, 14500, 16340<br>18650, 21700, 26650 | AA, AAA, C |

- ✦ USB output: 5V/2A, for external power source
- ✦ Micro USB charging, and USB discharging
- ✦ LCD screen for battery level, charging and discharging status
- ✦ 0.5/1.0/2.0A - three charging current for option
- ✦ Short circuit protection, over-current protection, over-voltage protection and reverse-polarity protection
- ✦ Micro-computer chip controlled digitally regulated charging to extend battery lifetime
- ✦ Size: 4.72" x 1.50" x 1.18" (120 x 38 x 30 mm)
- ✦ Weight: 61±3 grams (excluding charging cable)
- ✦ Operating temperature: -20°C to 50°C; Operating humidity: 5% to 90%; Storage temperature: -20°C to 80°C
- ✦ CE, FCC, WEEE

Image: The Fenix ARE-D1 charger shown in its retail packaging, with a clear indication of the package contents: the ARE-D1 charger, Micro USB charging cable, and user manual.

## Safety Information

- Use only with batteries and power adapters of high-quality standards. Incorrect power supply may damage the charger or batteries.
- Do not charge non-rechargeable batteries.
- Avoid short-circuiting the battery terminals.
- Keep out of reach of children.
- The charger features built-in protections against short circuit, over-current, over-voltage, and reverse-polarity to ensure safe operation.