

## DLYFULL DL2

# Dlyfull DL2 2-Bay Lithium Battery Charger User Manual

Model: DL2

## 1. INTRODUCTION

The Dlyfull DL2 is an intelligent 2-bay lithium battery charger designed for various 3.7V Li-ion rechargeable batteries. It features an LCD display for monitoring charging status, independent charging slots, and multiple safety protections. This manual provides essential information for the safe and efficient operation of your charger.



Image 1.1: The Dlyfull DL2 2-Bay Lithium Battery Charger with included USB-A to USB-C cable.

## 2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- Dlyfull DL2 3.7V Lithium Battery Charger
- USB-A to USB-C Data Cable
- User Manual (this document)

## 3. PRODUCT OVERVIEW

The Dlyfull DL2 charger features two independent charging bays, an LCD display, and a robust USB-C input port.



Image 3.1: The Dlyfull DL2 charger highlighting the robust USB-C input port. The USB-C port is designed for durability and ease of use, allowing connection in either orientation.

### 3.1 Key Components

- **LCD Display:** Shows charging status for each battery.
- **Charging Slots (CH1, CH2):** Two independent bays for batteries.
- **USB-C Input Port:** For connecting the power source.
- **Thickened Slider:** Enhanced durability for frequent battery insertion and removal.



Image 3.2: Illustration of the upgraded thickened slide mechanism, designed for over 50,000 uses, improving durability compared to older versions.

### 3.2 Battery Compatibility

The charger supports various 3.7V Li-ion rechargeable batteries, including both button-top and flat-top types.

- 10340, 10440, 16340, 17335, 17500
- 18650, 21700, 22650, 26650

Image 3.3: The charger's diverse slot design accommodates both button-top and flat-top battery types, such as 21700 and 18650.

## 4. SETUP

- Connect Power:** Insert the USB-C end of the provided cable into the charger's USB-C input port. Connect the USB-A end to a compatible 5V/2A USB power adapter (not included). The charger will power on.
- Insert Batteries:** Carefully insert one or two compatible 3.7V Li-ion batteries into the charging slots, ensuring correct polarity (+ and - ends match the markings in the slots). The charger's independent slots allow for simultaneous charging of different battery types.

## 5. OPERATING INSTRUCTIONS

### 5.1 Charging Process

- Once batteries are inserted, the LCD display will activate and show the charging status for each slot independently.
- The charger utilizes a CC-CV (Constant Current - Constant Voltage) charging mode for efficient and safe charging.
- Charging speed is approximately 1000mA per slot. For example, a 2500mAh 18650 battery may take 2-3 hours, and a 5000mAh 21700 battery may take 5-6 hours.



Image 5.1: The charger provides 1A (1000mA) fast charging, with estimated charging times for common battery capacities.

### 5.2 LCD Display Indicators

The LCD screen provides a visual representation of the battery charge level:

- 0-25%:** First segment of the battery icon is filled.
- 25-50%:** Second segment of the battery icon is filled.
- 50-75%:** Third segment of the battery icon is filled.
- 75-100%:** Fourth segment of the battery icon is filled.
- 100%:** All segments of the battery icon are filled, indicating a full charge.
- Abnormal Charging/Battery Failure:** The battery icon will flash, indicating an issue.



Image 5.2: The LCD display clearly indicates the charging progress from 0% to 100% and signals battery failure with a flashing icon.

### 5.3 0V/Low-Voltage Activation

The charger can activate 1.9-2.8V ( $\pm 0.1V$  tolerance) batteries with 0V and low-voltage activation. This feature helps to restore over-discharged lithium batteries, ensuring their lifespan and safety. This function is primarily applicable to lithium batteries equipped with protection boards.



Image 5.3: Illustration of the 0V/Low-Voltage Activation process, where the charger can revive deeply discharged batteries before commencing regular charging.

## 6. SAFETY FEATURES

The Dlyfull DL2 charger incorporates multiple intelligent protection mechanisms to ensure safe and reliable charging:



Image 6.1: Visual representation of the comprehensive safety features integrated into the Dlyfull DL2 charger.

- **Overcharge Protection:** Automatically stops charging when batteries reach full capacity to prevent overcharging.
- **Overcurrent/Overvoltage Protection:** Safeguards against excessive current or voltage during charging.
- **Short Circuit Protection:** Prevents damage in case of a short circuit.
- **Reverse Polarity Protection:** Protects the charger and batteries if batteries are inserted incorrectly.
- **Overheat Protection:** Monitors temperature to prevent overheating during operation.
- **Auto Termination:** Charging automatically terminates when the battery is fully charged.

## 7. MAINTENANCE

- Keep the charger clean and dry. Avoid exposure to moisture or extreme temperatures.
- Do not attempt to disassemble or modify the charger.
- Store the charger in a cool, dry place when not in use.
- Regularly check the USB-C port and charging slots for any debris that might obstruct proper connection.

## 8. TROUBLESHOOTING

- **Charger not powering on:** Ensure the USB-C cable is securely connected to both the charger and a working 5V/2A USB power adapter. Try a different USB port or adapter.
- **Battery not charging / LCD flashing:**
  - Check battery polarity. Reinsert the battery with correct orientation.
  - Ensure the battery is a compatible 3.7V Li-ion type.
  - The battery might be faulty or severely damaged. Try a different battery.
  - Clean battery contacts and charger slots if dirty.
- **Slow charging:** Ensure your USB power adapter provides at least 5V/2A output. Lower output adapters may result in slower charging.

## 9. SPECIFICATIONS

Feature	Specification
Model	DL2
Input	5V/2A (USB-C)
Output Voltage	DC 4.2V ( $\pm 0.05V$ )
Output Current	1000mA x 2
Compatible Battery Types	3.7V Li-ion (10340, 10440, 16340, 17335, 17500, 18650, 21700, 22650, 26650)
Product Dimensions	1.39"D x 2.57"W x 5.5"H (3.53 x 6.53 x 13.97 cm)
Item Weight	3.36 ounces (95.25 grams)
Certifications	UL, CE, FCC

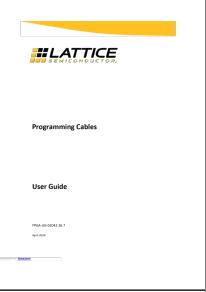
## 10. WARRANTY & SUPPORT

The Dlyfull DL2 charger comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use.

For technical support, warranty claims, or any inquiries, please contact Dlyfull customer service. We offer **24-hour attentive customer service** to assist you.

Please refer to the contact information provided with your purchase or visit the official Dlyfull website for support details.

### Related Documents - DL2

	<p><a href="#">Lattice Semiconductor Programming Cables User Guide</a></p> <p>Comprehensive user guide for Lattice Semiconductor programming cables, detailing features, pin configurations, connection methods, software usage, and troubleshooting for FPGA development.</p>
	<p><a href="#">Instrukcja Obsługi Klimatyzatora Przenośnego LIN TAC-07CPB/DL2 i TAC-09CPB/DL2 Mirage</a></p> <p>Kompletna instrukcja obsługi dla przenośnych klimatyzatorów LIN modeli TAC-07CPB/DL2 Mirage white i TAC-09CPB/DL2 Mirage white. Zawiera informacje o bezpieczeństwie, funkcjach, instalacji, obsłudze, konserwacji i rozwiązywaniu problemów.</p>

 <p>These read carefully before using the product.</p>	<p><a href="#"><b>AVIC VIEW-i ELITE DL2/Elite PLUS DL2 User Manual</b></a></p> <p>Comprehensive user manual for the AVIC VIEW-i ELITE DL2 and Elite PLUS DL2 dashcam. Provides detailed instructions on installation, setup, operation, PC software usage, troubleshooting, and specifications.</p>
	<p><a href="#"><b>Sportworks Transit Racks Parts Manual</b></a></p> <p>Comprehensive parts manual for Sportworks transit bike racks, detailing components for VeloPorter, DL2, DL3, and Apex models, including pivot plates, mounting brackets, and installation kits for public transit.</p>
	<p><a href="#"><b>Eltako DL2-BH98B-pm DALI-2 Motion/Brightness Sensor Office - Technical Specification</b></a></p> <p>Detailed technical specifications, installation guide, and operating modes for the Eltako DL2-BH98B-pm DALI-2 motion and brightness sensor office. Covers electrical data, technical parameters, detection areas, and DALI integration.</p>
	<p><a href="#"><b>LINAK DL2 and CBD6S System User Manual</b></a></p> <p>Comprehensive user manual for the LINAK DL2 lifting column and CBD6S control box system, detailing installation, operation, maintenance, and safety guidelines for desk applications.</p>