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DLYFULL UM4

DLYFULL UM4 USB Multi-Charger Instruction Manual

Model: UM4

1. INTRODUCTION

Thank you for choosing the DLYFULL UM4 USB Multi-Charger. This intelligent charger is designed to safely and efficiently charge a wide range of rechargeable batteries, including Li-ion, LiFePO4, and Ni-MH/Ni-Cd types. It features four independent charging slots and a clear display for monitoring the charging process. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your batteries and charger.

2. SAFETY INFORMATION

- Use this charger only for the specified battery types and sizes. Attempting to charge incompatible batteries may result in damage to the charger, batteries, or personal injury.
- Do not expose the charger to water, high humidity, or extreme temperatures.
- Avoid short-circuiting the battery slots.
- Do not disassemble or modify the charger. Refer all servicing to qualified personnel.
- Keep the charger out of reach of children and pets.
- Ensure proper ventilation during charging. Do not cover the charger.
- Unplug the charger from the power source when not in use or before cleaning.
- If any abnormal conditions occur (e.g., smoke, unusual smell, excessive heat), immediately disconnect the charger from the power source and remove the batteries.

3. PRODUCT OVERVIEW



Figure 3.1: Front view of the DLYFULL UM4 Multi-Charger, showing the digital display and four independent battery charging slots.

The DLYFULL UM4 features a clear LCD display that provides real-time information on each battery's charging status, voltage, current, and capacity. It has four independent slots, allowing you to charge different battery types and sizes simultaneously.



Figure 3.2: Side view of the DLYFULL UM4 Multi-Charger, highlighting the USB Type-C input port for power connection.

The charger is powered via a universal USB Type-C port, offering convenient connectivity to various power sources such as USB wall adapters, power banks, or computer USB ports. The input requirement is DC 5V / 2A.



Figure 3.3: Bottom view of the DLYFULL UM4 Multi-Charger, showing ventilation holes for heat dissipation and product information labels.

The bottom of the charger includes ventilation holes to ensure efficient heat dissipation during operation, contributing to the safety and longevity of the device.

4. SPECIFICATIONS

Table 4.1: Technical Specifications of DLYFULL UM4 Charger

Feature	Description
Input	DC 5V / 2A (USB Type-C)
Output Current (per slot)	Li-ion 4.20V, LiFePo4 3.65V: 4 Slots in use: 500mA per slot 3 Slots in use: 650mA per slot 2 Slots in use: 1A per slot 1 Slot in use: 2A per slot
	Ni-MH 1.48V: 1A per slot
Operating Temperature	0°C to 40°C
Li-ion Max Protection Voltage	4.20V \pm 0.05V
Ni-MH Max Protection Voltage	1.53V \pm 0.05V
Compatible Battery Types	Li-ion (3.6V / 3.7V), LiFePo4 (3.2V), Ni-MH (1.2V)
Compatible Battery Sizes	10340, 14500, 16340 (RCR123A), 17500, 17650, 17670, 18490, 18500, 18650, 20700, 21700, 22650, 26500, 26650, Size 2 (C), Size 3 (AA), Size 4 (AAA), SC
Note	Up to two Size 2 (C) Ni-MH batteries can be charged simultaneously.

入力	DC 5V / 2A(USB Type-C)				
	スロット数	4	3	2	1
出力	Li-ion 4.20V	500mA	650mA	1A	2A
	LiFePo4 3.65V				
	Ni-MH 1.48V			1A	
動作温度域	0~40°C				
Li-ion 最高保護電圧	4.20V±0.05V				
Ni-MH 最高保護電圧	1.53V±0.05V				
対応電池	Li-ion 3.6V/3.7V	10340/14500/16340(RCR123A)17500/ 17650/17670/18490/18500/18650/20 700/21700/22650/26500/26650			
	LiFePo4 3.2V				
	Ni-MH 1.2V	単2形/単3形/単4形/C/SC			
注意	単2形Ni-MH電池は同時に2本までセット可能です。				

Figure 4.1: Original technical specifications table (Japanese) for reference.

5. SETUP

5.1 Connecting Power

1. Locate the USB Type-C input port on the side of the DLYFULL UM4 charger.
2. Connect a USB Type-C cable (not included) to the charger's input port.
3. Connect the other end of the USB cable to a compatible DC 5V / 2A USB power adapter (e.g., a smartphone charger, power bank, or computer USB port).
4. Once connected, the charger's display will illuminate, indicating it is ready for use.

5.2 Inserting Batteries

1. Ensure the battery's positive (+) and negative (-) terminals match the polarity indicators within the charger slots.
2. Gently insert the battery into an available slot. The spring-loaded mechanism will secure the battery in place.

3. The charger will automatically detect the battery type (Li-ion, LiFePO4, or Ni-MH) and begin the charging process.

6. OPERATING INSTRUCTIONS

6.1 Automatic Detection and Charging

- Upon inserting a battery, the DLYFULL UM4 charger automatically identifies the battery type and initiates the appropriate charging algorithm.
- The display will show real-time charging parameters for each slot, including voltage (V), charging current (A), and charged capacity (mAh).
- The charging process will automatically stop when the battery is fully charged.

6.2 Display Information

The LCD display provides the following information for each slot:

- Battery Type:** Indication of Li-ion, LiFePO4, or Ni-MH/Ni-Cd.
- Voltage (V):** Current voltage of the battery.
- Current (A):** Current charging rate. This adjusts based on the number of active slots.
- Capacity (mAh):** Accumulated charged capacity.
- Charging Status:** Visual indicator of charging progress.
- Low Input:** An alert if the input power is insufficient (e.g., less than 2A).

7. MAINTENANCE

- Cleaning:** Disconnect the charger from power before cleaning. Use a soft, dry cloth to wipe the surface. Do not use abrasive cleaners or solvents.
- Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- Inspection:** Periodically inspect the charger and cable for any signs of damage. Do not use if damaged.

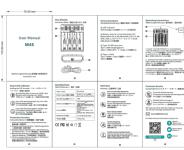
8. TROUBLESHOOTING

- Charger not powering on:**
 - Ensure the USB Type-C cable is securely connected to both the charger and the power source.
 - Verify that the power adapter is functioning and provides DC 5V / 2A output.
 - Try a different USB cable or power adapter.
- Battery not charging / "Low Input" displayed:**
 - Check if the battery is inserted with correct polarity.
 - Ensure the battery is compatible with the charger (type and size).
 - The "Low Input" message indicates insufficient power. Use a power adapter that can supply a full 2A.
 - Clean the battery contacts and charger contacts if they appear dirty.
- Charger or batteries getting excessively hot:**
 - Immediately disconnect power and remove batteries.
 - Ensure the charger is in a well-ventilated area and not covered.
 - Verify that the batteries are not damaged or counterfeit.
 - If the issue persists, discontinue use and contact support.

9. WARRANTY AND SUPPORT

DLYFULL products are manufactured with high-quality standards. For warranty information or technical support, please refer to the retailer where you purchased the product or visit the official DLYFULL website. Please retain your proof of purchase for warranty claims.

Related Documents - UM4

	<p>Dlyfull M4S Battery Charger User Manual</p> <p>User manual for the Dlyfull M4S battery charger, detailing its features, specifications, operating instructions, and protection functions for various rechargeable battery types.</p>
	<p>NITECORE UM4 Intelligent USB Four-Slot Battery Charger</p> <p>The NITECORE UM4 is an intelligent USB four-slot battery charger featuring automatic and high-speed charging, real-time LCD display, and advanced battery management functions like activation and restoration for Li-ion, IMR, LiFePO4, Ni-MH, and Ni-Cd batteries. It supports QC 2.0 input and includes safety protections.</p>
	<p>Mustang R03(AAA) 100% Zinc Manganese Dioxide Battery Product Specification</p> <p>Detailed product specification for the Mustang R03(AAA) 100% Zinc Manganese Dioxide battery, including electrical characteristics, discharge performance, safety tests, and storage information.</p>
	<p>BOYA Microphone Catalog 2019 - Professional Audio Solutions</p> <p>Explore the BOYA Microphone Catalog 2019, featuring a comprehensive range of professional audio solutions. This catalog showcases wired and wireless microphones, lavalier microphones, digital and USB microphones, shotgun microphones, audio adapters, boompoles, windshields, and shock mounts designed for videographers, broadcasters, filmmakers, and content creators. Discover high-quality audio equipment available in over 150 countries.</p>
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