Lixada Lii 500

Lixada Lii-500 Smart Battery Charger User Manual

1. Introduction

Thank you for choosing the Lixada Lii-500 Smart Battery Charger. This intelligent charger is designed to provide efficient and safe charging for various cylindrical rechargeable batteries, including 3.7V Li-ion and 1.2V Ni-MH types. It features four independent charging slots, multiple charging current options, and comprehensive safety protections. The integrated LCD provides real-time information on battery status, making it a versatile tool for battery management.

2. Safety Information

- Use only the supplied power adapter.
- Do not charge damaged or leaking batteries.
- Ensure correct battery polarity (+/-) before inserting into the charger.
- Keep the charger away from water, moisture, and high temperatures.
- Do not disassemble or modify the charger.
- Children should use the charger under adult supervision.
- Unplug the charger from the power outlet when not in use.
- The USB output function is only available when Li-ion 3.7V batteries are inserted.

3. Product Overview

The Lii-500 charger features a compact design with an intuitive LCD display and control buttons for easy operation.

Figure 3.1: Top view of the Lixada Lii-500 charger, highlighting the four battery slots, LCD display, Mode button, and Current button.

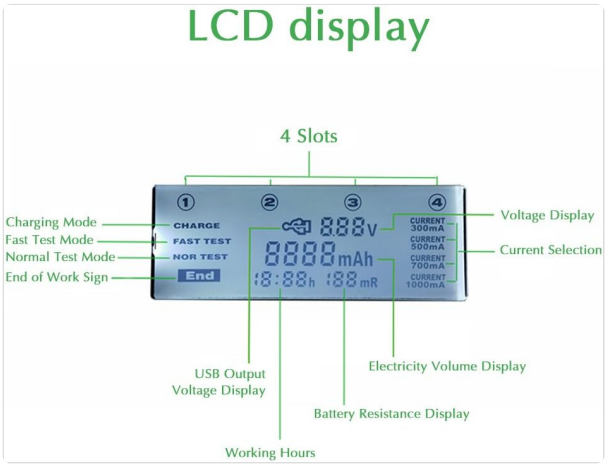

Figure 3.2: Detailed view of the LCD display, showing indicators for Charging Mode, Fast Test Mode, Normal Test Mode, End of Work Sign, Voltage Display, Current Selection, Electricity Volume Display, Battery Resistance Display, and Working Hours.

Figure 3.3: Rear view of the Lixada Lii-500 charger, showing the DC 12V power input port and the 5V USB output port.

Figure 3.4: Bottom view of the Lixada Lii-500 charger, displaying product specifications and regulatory marks.

4. Specifications

Feature	Detail
Input Voltage	DC 12V / 2A (minimum)
Compatible Battery Types	3.7V Li-ion, 1.2V Ni-MH / Ni-Cd
Compatible Battery Sizes	Diameter: 8-26mm, Height: 34-71mm (e.g., 26650, 22650, 18650, 18490, 18500, 17500, 17355, 16340 (RCR123), 14500, 10440, AAA, AA, C)
Charge Output (Li-ion)	4.2V at 300mA / 500mA / 700mA / 1000mA (per slot)
Charge Output (Ni-MH/Cd)	1.48V at 300mA / 500mA / 700mA / 1000mA (per slot)
Charging Cut-off Voltage (Li-ion)	4.2V ± 0.05V
Discharge Output	500mA (cutoff Li-ion 2.8V / NiMH 0.9V)

Feature	Detail
USB Output	5V 1000mA (only with Li-ion 3.7V battery inserted)
Display	LCD (Voltage, Current, Capacity, Impedance, Time)
Safety Protections	Over current, over charge, short circuit, reverse polarity
Dimensions	9.29 x 6.65 x 1.93 inches (approx.)
Weight	14.8 ounces (approx.)

5. Setup

1. **Unpack the Charger:** Carefully remove the Lii-500 charger and its accessories from the packaging.
2. **Connect Power:** Plug the provided DC 12V power adapter into the charger's DC 12V input port (5.5mm outer diameter, 2.1mm inner diameter) and then into a wall outlet. The LCD screen will illuminate.
3. **Initial Display:** Upon power-on, the charger will display "null" on the LCD if no batteries are inserted.

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Video 5.1: An unboxing and initial setup demonstration of the Lii-500 charger, showing the contents of the package and how to connect the power adapter.

6. Operating Instructions

6.1. Charging Batteries

1. **Insert Batteries:** Place one or more compatible batteries into the charging slots, ensuring correct polarity. The charger will automatically detect the battery type (Li-ion or Ni-MH) and display its voltage.
2. **Select Mode:** Press the **MODE** button to cycle through available modes: **CHARGE**, **FAST TEST**, and **NOR TEST**. For standard charging, select **CHARGE**.
3. **Select Current:** While in **CHARGE** mode, press the **CURRENT** button to select the desired charging current (300mA, 500mA, 700mA, or 1000mA). The selected current will apply to all inserted batteries.
4. **Start Charging:** The charger will automatically begin charging after a few seconds of inactivity or after selecting the current. The LCD will display real-time charging status.
5. **Completion:** When charging is complete, the LCD will display "End".

6.2. Battery Testing Modes

The Lii-500 offers two testing modes to determine battery capacity:

- **FAST TEST:** This mode quickly determines the battery's capacity by first discharging and then fully charging the battery.
- **NOR TEST (Normal Test):** This mode provides a more accurate capacity measurement. It involves fully charging the battery, then discharging it to measure capacity, and finally recharging it.

To use a test mode:

1. Insert batteries.
2. Press the **MODE** button to select either **FAST TEST** or **NOR TEST**.
3. Press the **CURRENT** button to select the desired discharge/charge current for the test.

4. The test will begin automatically. The LCD will show the measured capacity (mAh) upon completion.

6.3. USB Output Function

The charger can function as a power bank to charge 5V electronic devices via its USB output port. This function is only available when 3.7V Li-ion batteries are inserted into the charging slots.

- Insert charged 3.7V Li-ion batteries into the slots.
- Connect your 5V electronic device (e.g., smartphone) to the USB output port using a compatible USB cable.
- The charger will provide 5V 1000mA output.

7. Battery Compatibility

The Lixada Lii-500 is compatible with a wide range of cylindrical rechargeable batteries. Ensure your batteries fall within the specified dimensions and voltage types.

- **Li-ion Batteries (3.7V):** 26650, 22650, 18650, 18490, 18500, 17500, 17355, 16340 (RCR123), 14500, 10440.
- **Ni-MH / Ni-Cd Batteries (1.2V):** AAA, AA, C (Mignon, Bady, Sub-C, A).
- **Physical Dimensions:** Battery diameter must be between 8mm and 26mm. Battery height must be between 34mm and 71mm.

8. Troubleshooting

Problem	Possible Cause	Solution
Charger not powering on	No power, faulty adapter, loose connection.	Check power outlet, ensure adapter is securely connected, try a different outlet.
Battery not charging / "null" displayed	Incorrect battery insertion, incompatible battery, deeply discharged battery, faulty battery.	Re-insert battery with correct polarity, ensure battery type/size is compatible, try a different battery. Some deeply discharged batteries may not be recognized immediately.
USB output not working	No Li-ion 3.7V battery inserted, battery too low, faulty USB cable/device.	Ensure charged 3.7V Li-ion batteries are in slots, check battery charge level, try a different USB cable or device.
Charger overheating	Poor ventilation, high ambient temperature, faulty battery.	Ensure adequate ventilation around the charger, operate in a cool environment, remove any faulty batteries.

9. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the charger. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Avoid Impact:** Do not drop or subject the charger to heavy impact.

10. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or contact the retailer. Keep your proof of purchase for any warranty claims.