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## LiitoKala Lii-600

# LiitoKala Lii-600 Smart Universal LCD Fast Charger User Manual

Brand: LiitoKala | Model: Lii-600

## 1. INTRODUCTION

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Thank you for choosing the LiitoKala Lii-600 Smart Universal LCD Fast Charger. This advanced charger is designed to provide efficient and intelligent charging, testing, discharging, and repair functions for various rechargeable battery types, including Li-ion (3.7V) and NiMH/Ni-Cd (1.2V) batteries. Its intuitive touch button interface and clear LCD display make it easy to monitor battery status and manage charging processes. Please read this manual thoroughly before use to ensure safe and optimal operation.

## 2. SAFETY INFORMATION

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- Use only the provided 12V 5A power adapter. Using an incorrect adapter may damage the charger or batteries.
- Do not charge non-rechargeable batteries. This can lead to explosion, rupture, or leakage, causing personal injury or property damage.
- Ensure correct battery polarity (+/-) when inserting batteries into the charger slots.
- Do not expose the charger to water, high humidity, or extreme temperatures.
- Keep the charger away from flammable materials during operation.
- Do not disassemble or modify the charger. Refer all servicing to qualified personnel.
- The charger features independent temperature detection for each slot. If a battery's temperature reaches 65°C (149°F), the charger will automatically reduce the charging current. If the temperature continues to rise, the current will drop to the lowest setting (250mA).
- Test results for internal resistance (mR) are for reference only and should not be used for commercial or official proof.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x LiitoKala Lii-600 Battery Charger

- 1 x 12V/5A Power Adapter (US Plug)
- 1 x User Manual (this document)
- 1 x Car Cable



Image: Contents of the LiitoKala Lii-600 package, including the charger, power adapter, car charging cable, and user manual.

## 4. PRODUCT FEATURES

- **Fast Charging:** Maximum charging current of 3000mA per slot for rapid charging.
- **Touch Button Interface:** Responsive touch buttons with audible feedback for easy operation.
- **LCD Display:** Clear and comprehensive LCD shows voltage, current, capacity, internal resistance, temperature, and mode.
- **Battery Capacity Test:** Accurately measures the real capacity of batteries.
- **Battery Repair Function:** Attempts to restore over-discharged batteries (success not guaranteed).
- **Temperature Monitoring:** Independent temperature sensors in each slot prevent overheating.

- **Wide Compatibility:** Supports various Li-ion (3.7V) and NiMH/Ni-Cd (1.2V) battery sizes, including 18650, 26650, 21700, AA, AAA, 18490, 18350, 17670, 17500, 16340, RCR123, 14500, IMR, 10440.
- **Four Independent Slots:** Each slot operates independently, allowing different battery types and modes simultaneously.

- ▶ **3A super fast charging**
- ▶ **Test battery capacity**
- ▶ **Touch button control**
- ▶ **Repair battery**

**For Li-Ion 3.7V  
(26650 21700 18650 18500 18350 14500 etc)  
and NiMH 1.2V (AA AAA C SC etc)**

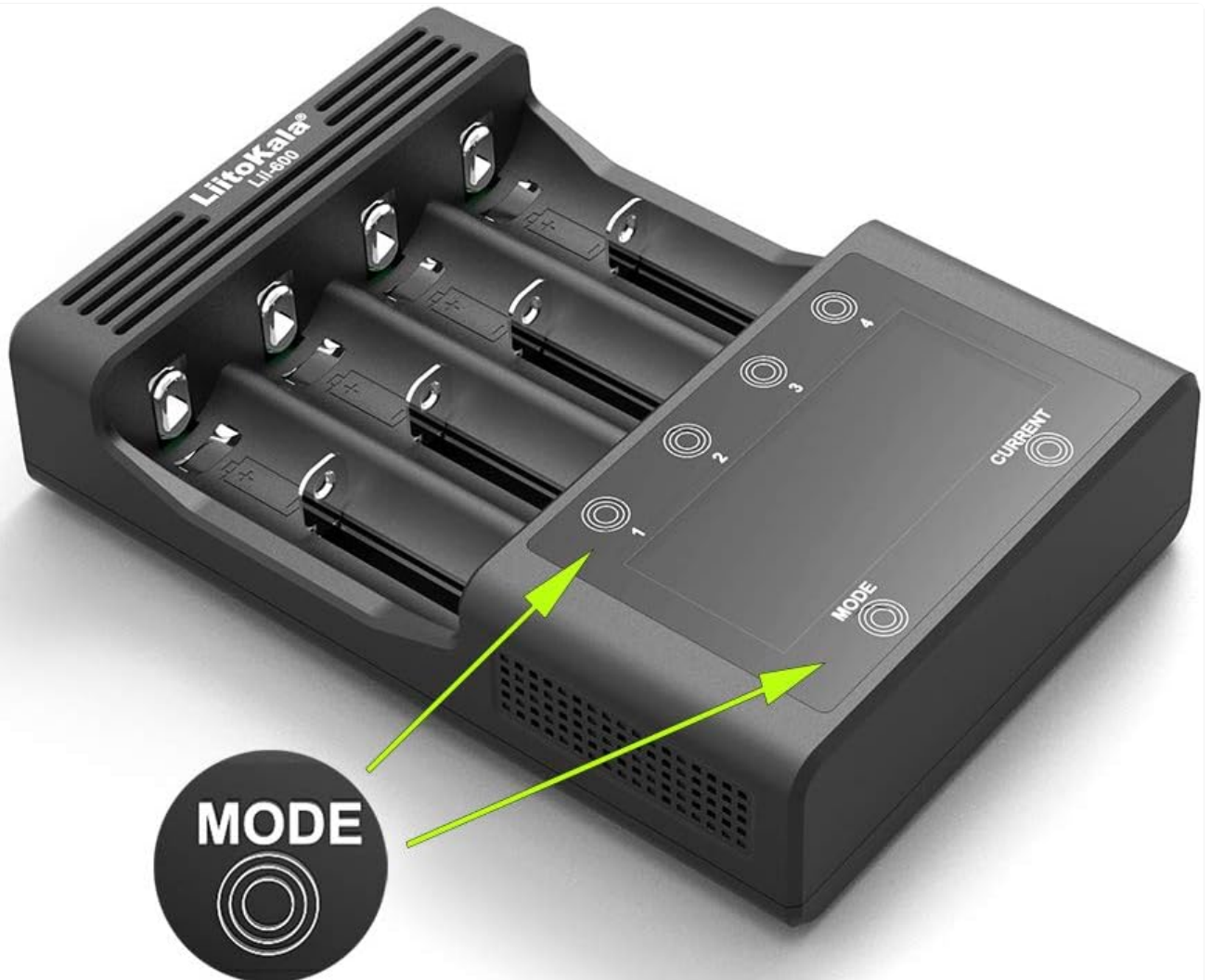


Image: The LiitoKala Lii-600 charger demonstrating its ability to charge various battery types, including Li-ion and NiMH/Ni-Cd cells.



**It can hold up to  
4 26650 batteries at the same time.**

*Image: The LiitoKala Lii-600 charger capable of accommodating up to four 26650 batteries simultaneously.*



## **TOUCH BUTTON**

A "drop" sound is heard when touched.

*Image: Detail of the Lii-600's touch-sensitive 'MODE' and 'CURRENT' buttons, which provide tactile and audible feedback upon touch.*

## 5. SETUP

1. **Connect Power:** Plug the 12V/5A power adapter into the DC 12V input port on the back of the charger. Then, plug the adapter into a standard wall outlet. The LCD display will illuminate.
2. **Insert Batteries:** Carefully insert one or more compatible rechargeable batteries into the charger slots, observing the correct polarity (+ and -) indicated on the charger. The charger will automatically detect the battery type (Li-ion or NiMH/Ni-Cd) and display initial information.

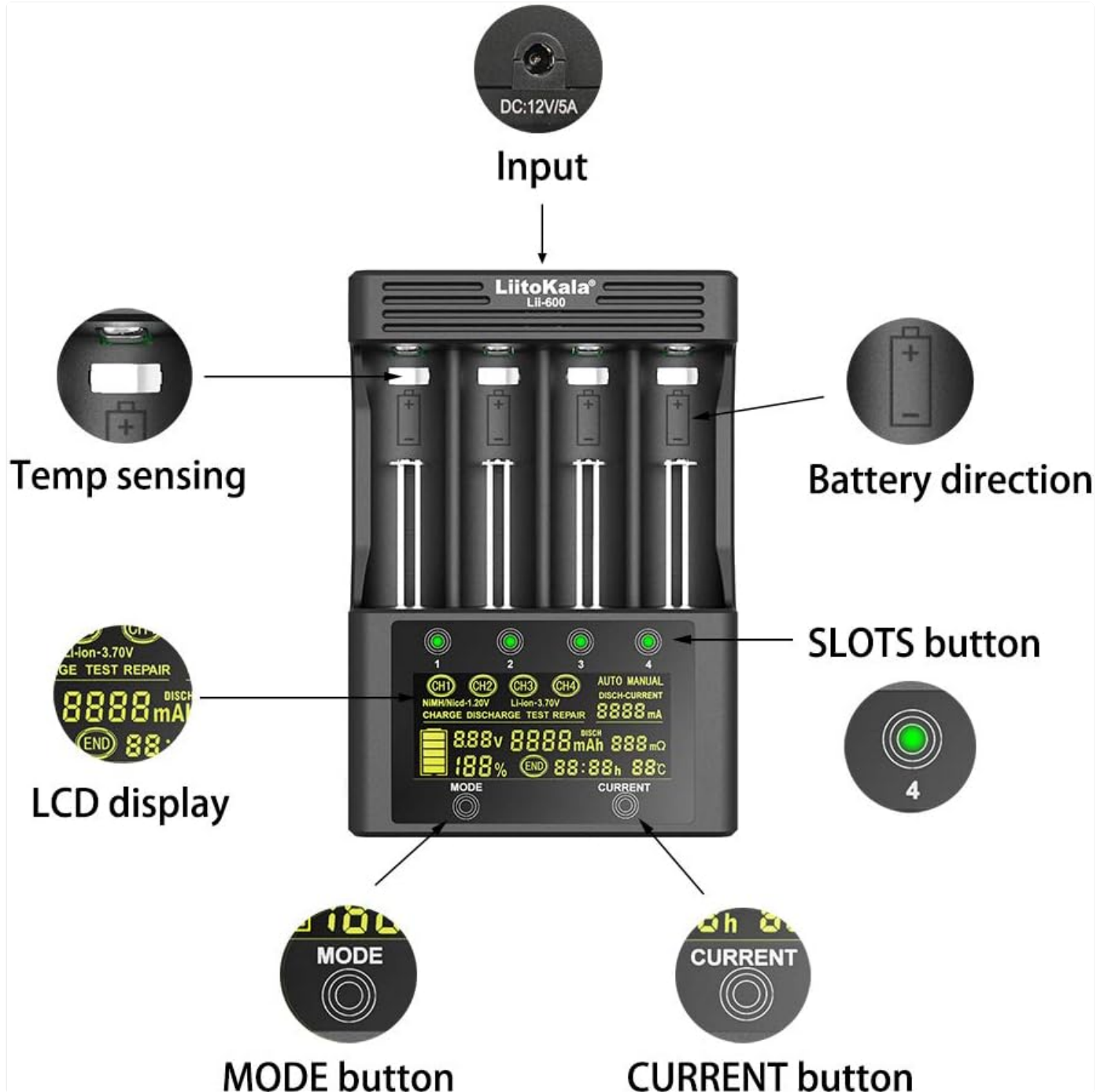


Image: Labeled diagram of the LiitoKala Lii-600 charger, indicating the DC 12V/5A input, LCD display, MODE and CURRENT buttons, battery slots, and temperature sensing points.

## 6. OPERATING INSTRUCTIONS

The Lii-600 charger features two main touch buttons: "MODE" and "CURRENT".

**MODE Button:** Used to select the operating mode (CHARGE, TEST, DISCHARGE, REPAIR). Press and hold for 3

seconds to enter mode selection.

**CURRENT Button:** Used to manually select the charging or discharging current.

**SLOTS Buttons (1, 2, 3, 4):** Used to select individual battery slots for specific settings.

## 6.1. CHARGE Mode

This is the default mode for charging batteries.

1. Insert the battery. The charger will automatically detect the battery type and enter CHARGE mode.
2. The charger will automatically distribute the charging current based on battery resistance.
3. To manually select the charging current (250mA, 500mA, 1000mA, 1500mA, 2000mA, 2500mA, 3000mA), press the "CURRENT" button repeatedly within 8 seconds of inserting the battery or selecting the slot.
4. The charging process will begin. The LCD will display real-time charging status.

## 6.2. TEST Mode (Capacity Test)

This mode measures the actual capacity of the battery. It involves a full discharge followed by a full charge.

1. Insert the battery.
2. Press and hold the "MODE" button for 3 seconds to enter mode selection.
3. Press "MODE" repeatedly until "TEST" is displayed.
4. Press the "CURRENT" button to select the desired charging current for the test cycle.
5. The charger will first fully discharge the battery, then fully charge it, and finally display the measured capacity. This process takes time.

## 6.3. DISCHARGE Mode

This mode discharges the battery to a safe low voltage.

1. Insert the battery.
2. Press and hold the "MODE" button for 3 seconds to enter mode selection.
3. Press "MODE" repeatedly until "DISCHARGE" is displayed.
4. Press the "CURRENT" button to select the desired discharge current.
  - If charging current is 250mA, discharge current is 250mA.
  - If charging current is 500mA or 1000mA, discharge current is 500mA.
  - If charging current is 1500mA, 2000mA, 2500mA, 3000mA, discharge current is 750mA.
  - For Ni-MH batteries, discharge current is limited to 250mA or 500mA.
5. The battery will begin discharging.

## 6.4. REPAIR Mode

This mode attempts to repair batteries that have lost power or are deeply discharged.

1. Insert the battery.
2. Press and hold the "MODE" button for 3 seconds to enter mode selection.
3. Press "MODE" repeatedly until "REPAIR" is displayed.
4. The charger will apply small currents and monitor voltage changes to attempt to restore the battery. This process may involve multiple cycles.
5. *Note:* There is no guarantee that the battery will be successfully repaired.



Image: The LCD display of the LiitoKala Lii-600 charger, providing detailed information on each battery slot, including current mode, voltage, capacity, internal resistance, and temperature.

## 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 when not in use.
- **Ventilation:** Ensure the charger has adequate ventilation during operation. Do not cover the ventilation holes.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	Power adapter not connected or faulty; power outlet issue.	Ensure power adapter is securely connected to charger and wall outlet. Test outlet with another device.
Battery not charging.	Incorrect battery insertion; non-rechargeable battery; battery too damaged.	Check battery polarity. Ensure battery is rechargeable. Try REPAIR mode for deeply discharged batteries (success not guaranteed).
LCD display shows error or abnormal readings.	Battery issue; internal resistance too high; charger malfunction.	Remove and reinsert battery. Try a different battery. If issue persists, contact customer support.
Charger gets hot during operation.	Normal operation (some heat is expected); poor ventilation.	Ensure adequate ventilation around the charger. The charger has built-in temperature protection to reduce current if overheating.

## 9. SPECIFICATIONS

Parameter	Value
Input	DC 12V 5A (min)
Output (Li-ion)	4.2V (250mA/500mA/1000mA/1500mA/2000mA/2500mA/3000mA) x 4 slots
Output (Ni-MH)	1.48V (250mA/500mA/1000mA) x 4 slots
Discharge Current	250mA/500mA/750mA (varies by selected charge current)
Compatible Battery Types	1.2V Ni-MH/Ni-Cd (AA, AAA) and 3.7V Li-ion (18650, 26650, 21700, 18490, 18350, 17670, 17500, 16340, RCR123, 14500, IMR, 10440)
Dimensions (L x W x H)	165mm x 115mm x 40mm
Item Model Number	Lii-600
Certifications	CE, FCC, RoHS, UL



Image: The underside of the LiitoKala Lii-600 charger, displaying its product label with input/output specifications and regulatory compliance marks.

## 10. WARRANTY AND SUPPORT

LiitoKala offers a **12-month quality assurance** for the Lii-600 charger. This warranty is applicable only to Li-ion 3.7V and NiMH/Ni-Cd 1.2V batteries used with the charger.

For technical support, warranty claims, or any inquiries regarding your LiitoKala Lii-600 charger, please contact your retailer or visit the official LiitoKala website for contact information.



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