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LiitoKala Lii-600

LiitoKala Lii-600 Smart LCD Battery Charger Instruction Manual

Model: Lii-600

1. INTRODUCTION

The LiitoKala Lii-600 is an advanced four-slot smart battery charger designed for various rechargeable battery types. It features an intuitive LCD touch screen display, multiple operating modes including charge, discharge, test, and repair, and offers adjustable charging currents for optimal battery care. This manual provides essential information for safe and efficient operation of your Lii-600 charger.



Image 1.1: Overview of the LiitoKala Lii-600 Smart LCD Battery Charger.

2. PACKAGE CONTENTS

- LiitoKala Lii-600 Battery Charger
- 12V 5A Power Adapter
- Instruction Manual (this document)

3. SETUP

1. **Connect Power Adapter:** Insert the DC 12V/5A power adapter into the input port located on the side of the charger. Plug the adapter into a suitable power outlet.
2. **Initial Display:** Upon power-up, the LCD screen will illuminate, indicating the charger is ready for use.
3. **Insert Batteries:** Carefully insert rechargeable batteries into the charging slots. Ensure correct polarity (+ and -) as indicated on the charger. The sliding battery compartments adjust to various battery lengths.

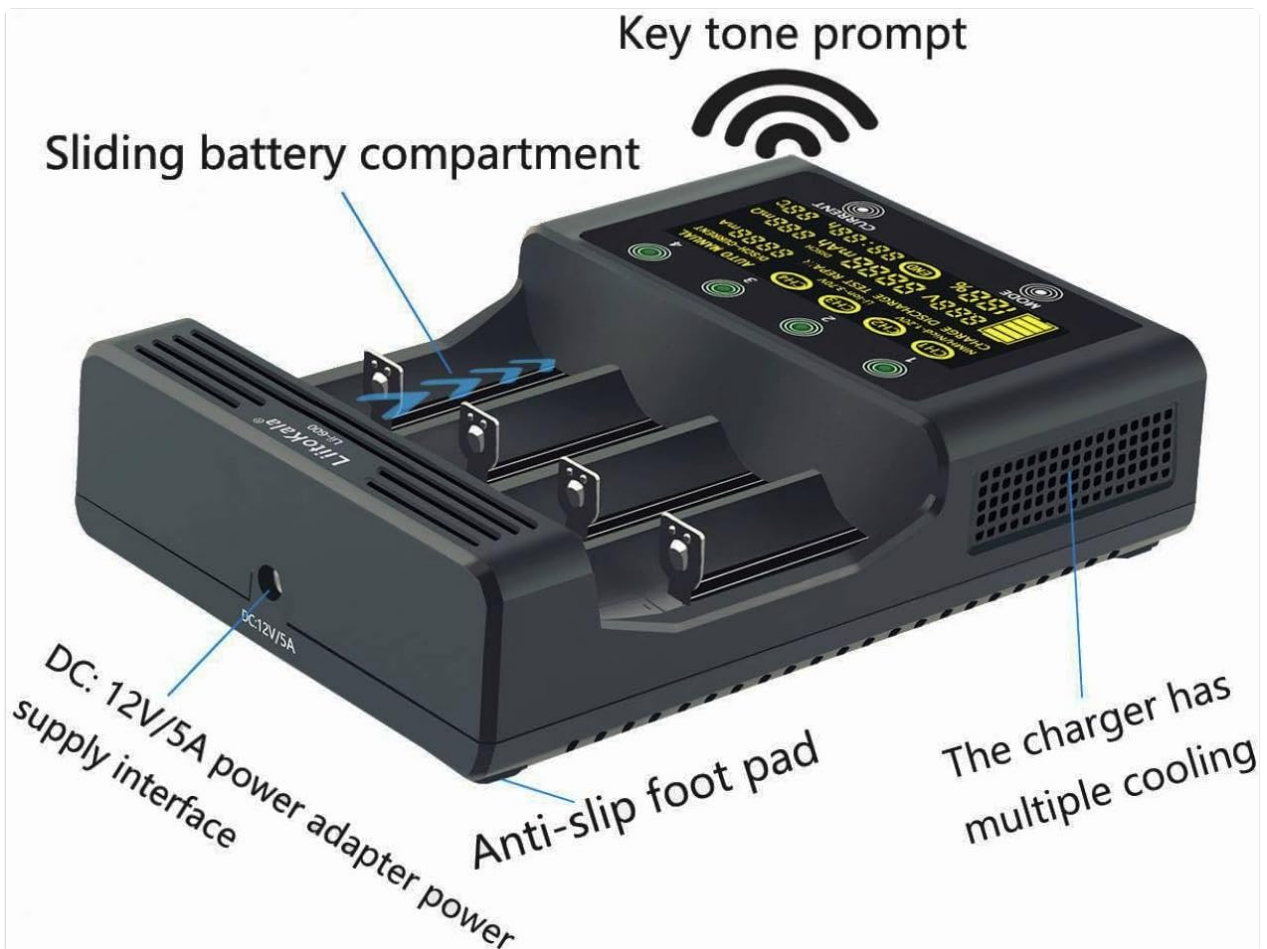


Image 3.1: Side view of the Lii-600 charger showing the DC 12V/5A power adapter input and cooling vents.

4. OPERATING MODES

The Lii-600 offers four distinct operating modes: Charge, Discharge, Test, and Repair. These modes can operate simultaneously across different slots, allowing for independent management of each battery.

4.1. Charge Mode

This mode is used for recharging batteries. The charger automatically detects the battery type and sets an appropriate charging current, or you can manually select from 250mA, 500mA, 1000mA, 1500mA, 2000mA, or

3000mA. A maximum output of 3000mA is available on a single slot.

4.2. Discharge Mode

In this mode, the charger discharges the battery to a set voltage before recharging it. This can help reduce the memory effect in Ni-MH/Ni-Cd batteries and provide a more accurate capacity reading.

4.3. Test Mode

The Test mode measures the actual capacity of a battery. It typically involves a full charge, then a full discharge while measuring the capacity, followed by a full recharge. This process provides a reliable indication of the battery's health and true capacity.

4.4. Repair Mode

The Repair mode is designed to rejuvenate older or underperforming batteries. For Li-ion batteries, it uses a 250mA current for repair. For Ni-MH batteries, the system automatically charges and discharges with a 250mA current multiple times until the battery is fully repaired. This mode can help restore some lost capacity and extend battery life.



5. BATTERY COMPATIBILITY

The LiitoKala Lii-600 is compatible with a wide range of rechargeable batteries, supporting both Li-ion and Ni-MH/Ni-Cd chemistries.

- **Li-ion (3.7V):** 10440, 14500, 16340, 17355, 17500, 17670, 18490, 18500, 18650, 22650, 26650, 21700.
- **Ni-MH/Ni-Cd (1.2V):** AA, AAA, SC.

The charger can accommodate batteries with lengths between 30mm and 72mm.

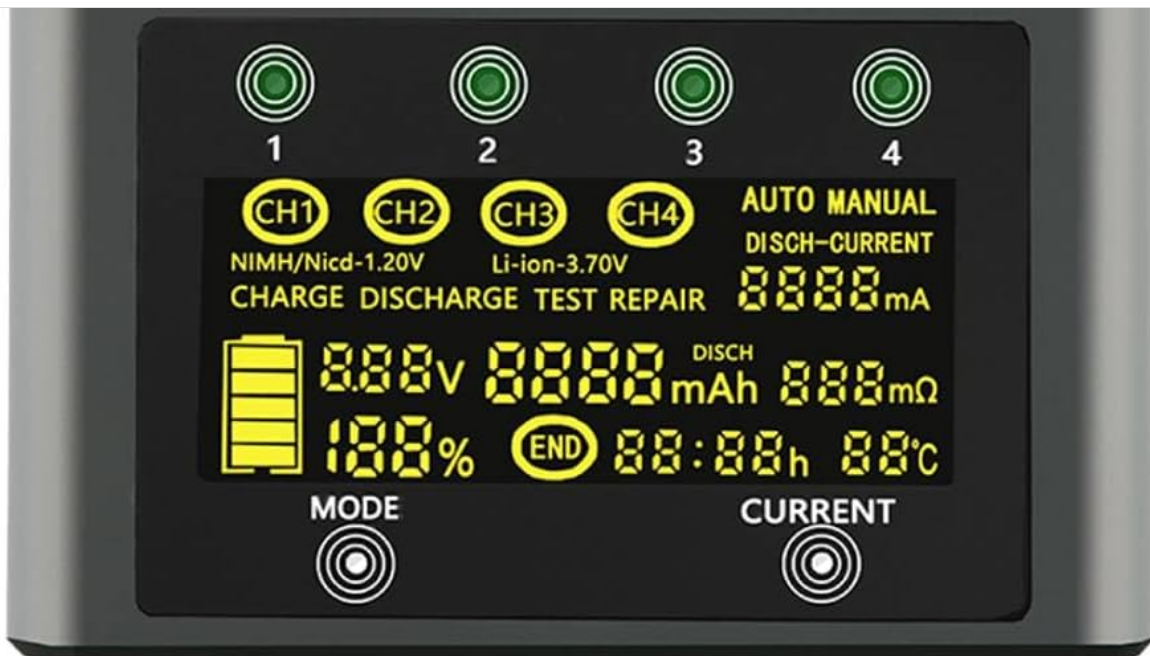


Image 5.1: The Lii-600 charger demonstrating compatibility with an 18650 Li-ion battery.

6. LCD DISPLAY EXPLANATION

The Lii-600 features an LCD touch screen that provides real-time information about the battery status and charging process. The display shows parameters for each individual slot.

- **Voltage (V):** Current battery voltage.
- **Current (mA):** Selected or actual charging/discharging current.
- **Time (h):** Elapsed time for the current operation.
- **Capacity (mAh):** Accumulated capacity during charge/discharge or measured capacity in Test mode.
- **Internal Resistance (mR):** Internal resistance of the battery.
- **Temperature (°C):** Operating temperature of the charger.
- **Charging Progress:** Visual battery icon indicating charge level and percentage.
- **Mode:** Indicates the current operating mode (Charge, Discharge, Test, Repair).
- **Battery Type:** Displays detected battery chemistry (NiMH/NiCd or Li-ion).



Display panel

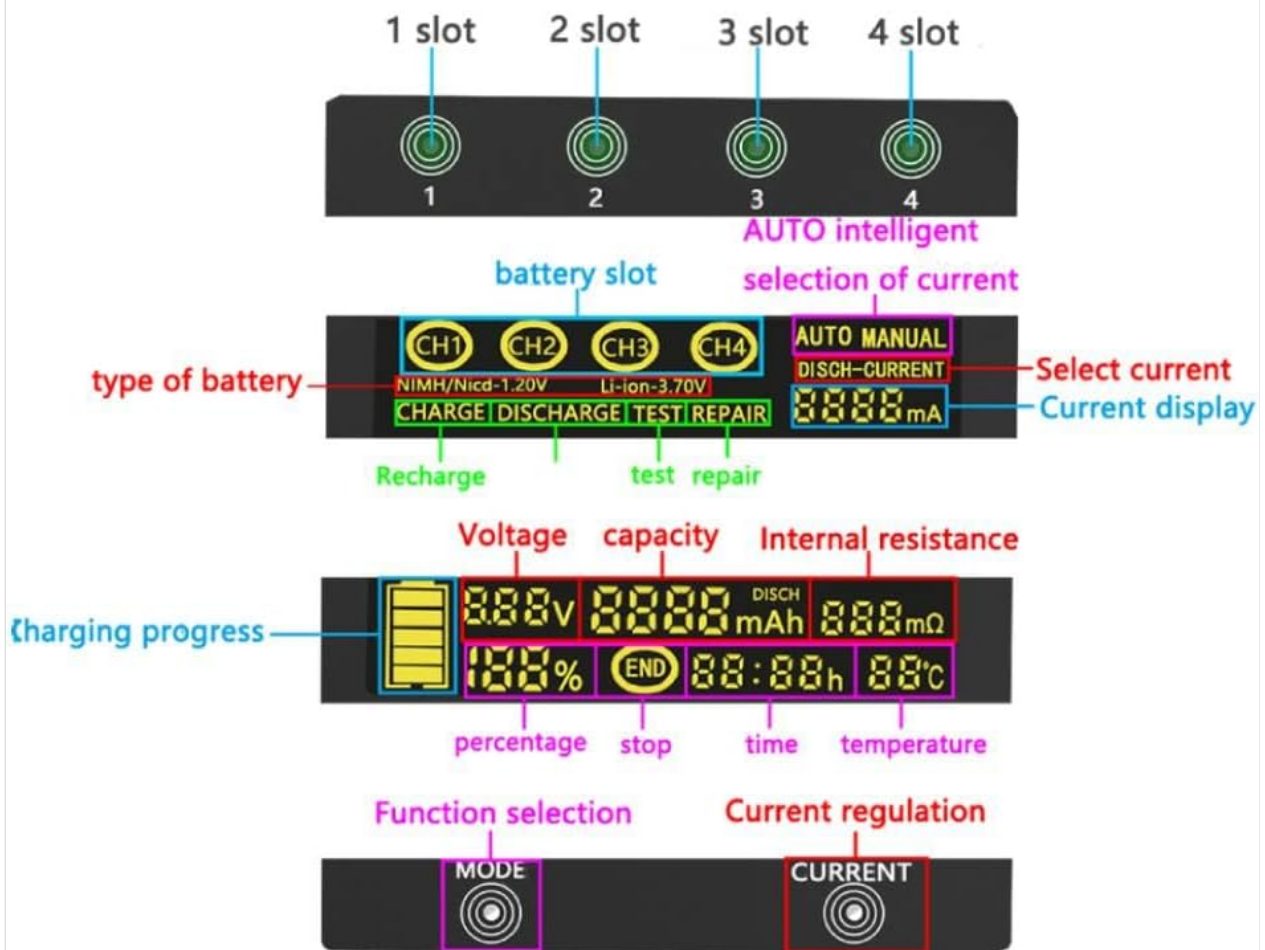


Image 6.1: Detailed explanation of the LiitoKala Lii-600 LCD display panel and its indicators.

7. SAFETY FEATURES

The LiitoKala Lii-600 is equipped with multiple protection functions to ensure safe operation and battery longevity:

- **Overcharge Protection:** Prevents batteries from being charged beyond their safe voltage limits.
- **Over-discharge Protection:** Protects batteries from being discharged too low.
- **Short-circuit Protection:** Automatically cuts off power in case of a short circuit.
- **Temperature Protection:** Monitors internal temperature and adjusts charging or shuts down if overheating occurs.
- **0V Activation Function:** Can activate deeply discharged batteries.
- **Intelligent Bad Battery Identification:** Detects and warns about faulty batteries.
- **Reverse Polarity Detection:** Prevents damage if batteries are inserted incorrectly.
- **Flame Retardant Material:** Constructed with materials designed to resist fire.

Upgrade 3A fast charging More time saving charging

It adopts an upgraded charging and discharging chip, with intelligent 3A flash charging output, provide 3A high-speed and fast charging for the battery.

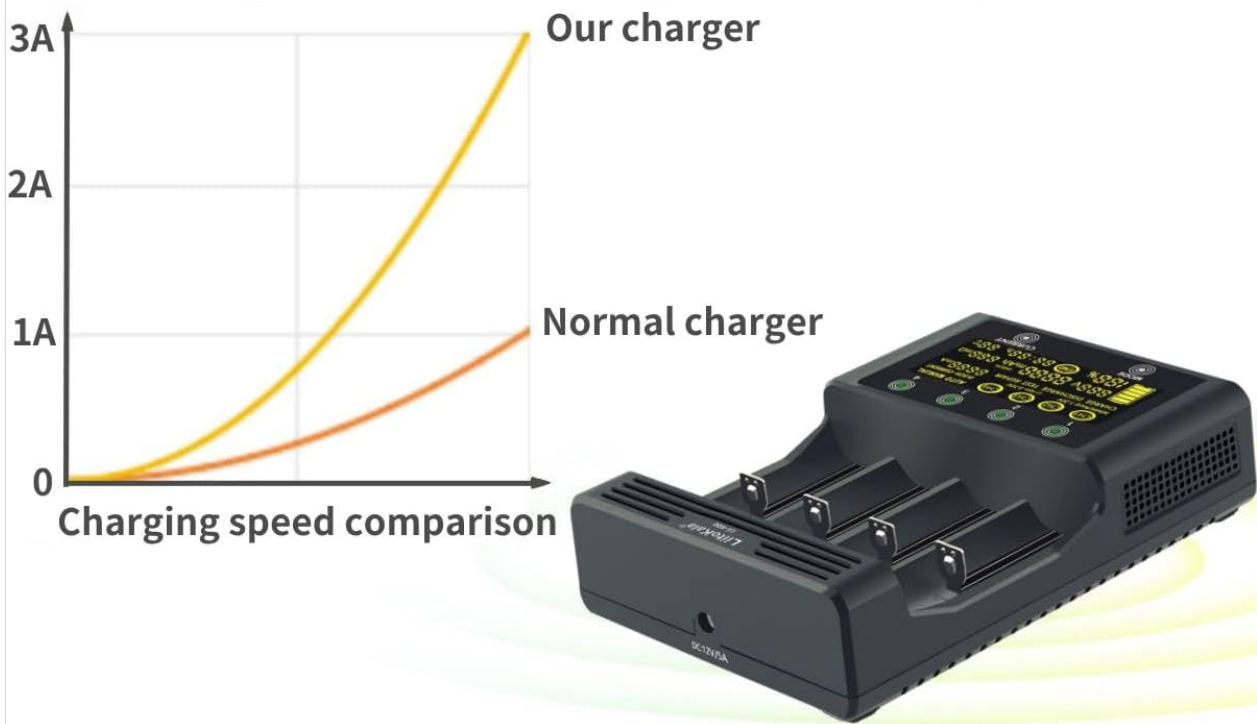


Image 7.1: Visual representation of the safety protection features integrated into the Lii-600 charger.

8. MAINTENANCE

- Keep the charger clean and dry. Avoid exposure to moisture or extreme temperatures.
- Do not attempt to disassemble or modify the charger. This will void the warranty and may cause damage or injury.
- Ensure proper ventilation around the charger during operation to prevent overheating.
- Regularly inspect the power adapter and cables for any signs of damage.

9. TROUBLESHOOTING

- **Charger not powering on:** Ensure the 12V 5A power adapter is securely connected to both the charger and a working power outlet.
- **Battery not charging:** Verify that the battery is inserted with correct polarity. Check if the battery is faulty (the charger may indicate this). Ensure the charging mode is selected.
- **Inaccurate capacity readings:** For more precise capacity measurements, use the 'Test' mode. Ensure batteries are fully discharged before testing if you suspect memory effect.
- **Charger feels warm:** It is normal for the charger to generate some heat during operation, especially during fast charging. Ensure adequate ventilation. If it becomes excessively hot, disconnect power and allow it to cool.
- **Display issues:** If the LCD display is unresponsive or shows errors, try disconnecting and reconnecting the power adapter.

10. SPECIFICATIONS

Feature	Specification
Model Number	Lii-600
Input Voltage	DC 12V
Input Current	5A
Output Voltage	3.7V (Li-ion), 1.2V (Ni-MH/Ni-Cd)
Charging Current Options	250mA, 500mA, 1000mA, 1500mA, 2000mA, 3000mA (per slot)
Compatible Battery Types	Li-ion (3.7V), Ni-MH/Ni-Cd (1.2V)
Compatible Battery Sizes	10440 to 26650, AA, AAA, SC (30-72mm length)
Display	LCD Touch Screen
Dimensions	165mm (L) x 115mm (W) x 40mm (H)
Safety Certifications	CE

11. WARRANTY AND SUPPORT

The LiitoKala Lii-600 charger comes with a 90-day warranty against manufacturer defects. For technical support or warranty claims, please contact your retailer or the manufacturer directly. Please retain your proof of purchase for warranty validation.

