

Walfront B6V3

Walfront B6 V3 Smart Balance Battery Charger User Manual

Model: B6V3

1. INTRODUCTION

The Walfront B6 V3 Smart Balance Battery Charger is a versatile and intelligent charging device designed for various battery types. It features microprocessor control, high power, and high-performance circuitry to ensure reliable and efficient charging. This charger is equipped with multiple safety protections, including reverse polarity, short circuit, overcharge, overcurrent, and overheat protection.

It supports a wide range of battery chemistries and cell counts, making it suitable for hobbyists and professionals alike. The charger can measure internal battery resistance for optimized performance.

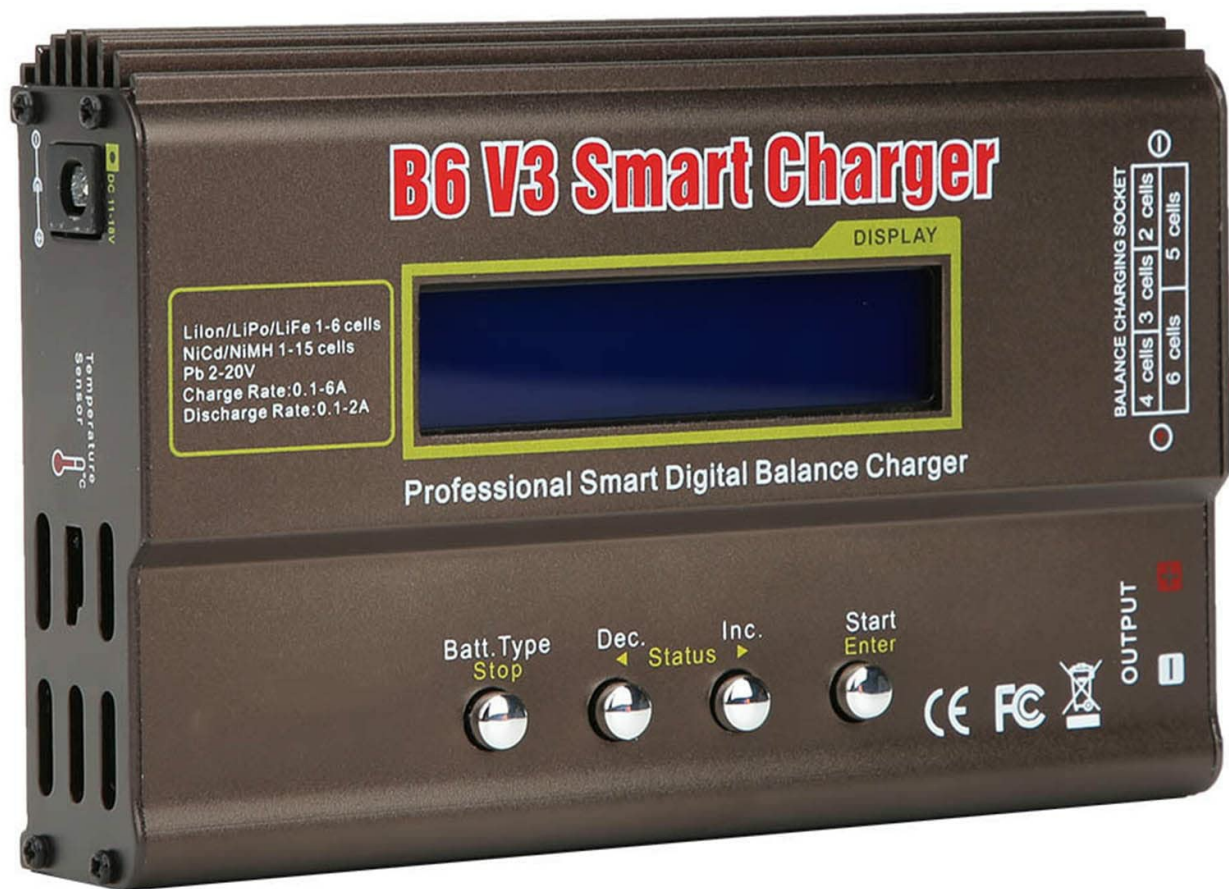


Figure 1: Walfront B6 V3 Smart Balance Charger and included accessories.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Walfront B6 V3 Smart Balance Battery Charger
- 1 x User Manual
- 1 x AC Adapter
- 1 x Charging Cable with XT60 and T-plug
- 1 x Alligator Clip Cable
- Additional Charging Cables (various types)



Figure 2: Assortment of charging cables provided with the charger.

3. SETUP

1. **Connect Power:** Connect the AC adapter to the charger's DC input port (DC11.0-18.0V) and then plug the adapter into a suitable power outlet. The charger's LCD screen should illuminate.
2. **Identify Battery Type:** Determine the type of battery you intend to charge (e.g., LiPo, NiMH, LiFe).
3. **Connect Battery:** Connect your battery to the appropriate charging cable. Ensure the polarity is correct. For balance charging, connect the battery's balance lead to the corresponding balance port on the charger (e.g., 2S, 3S, 4S, 5S, 6S).
4. **Secure Connections:** Double-check all connections to ensure they are firm and secure to prevent accidental disconnections during charging.

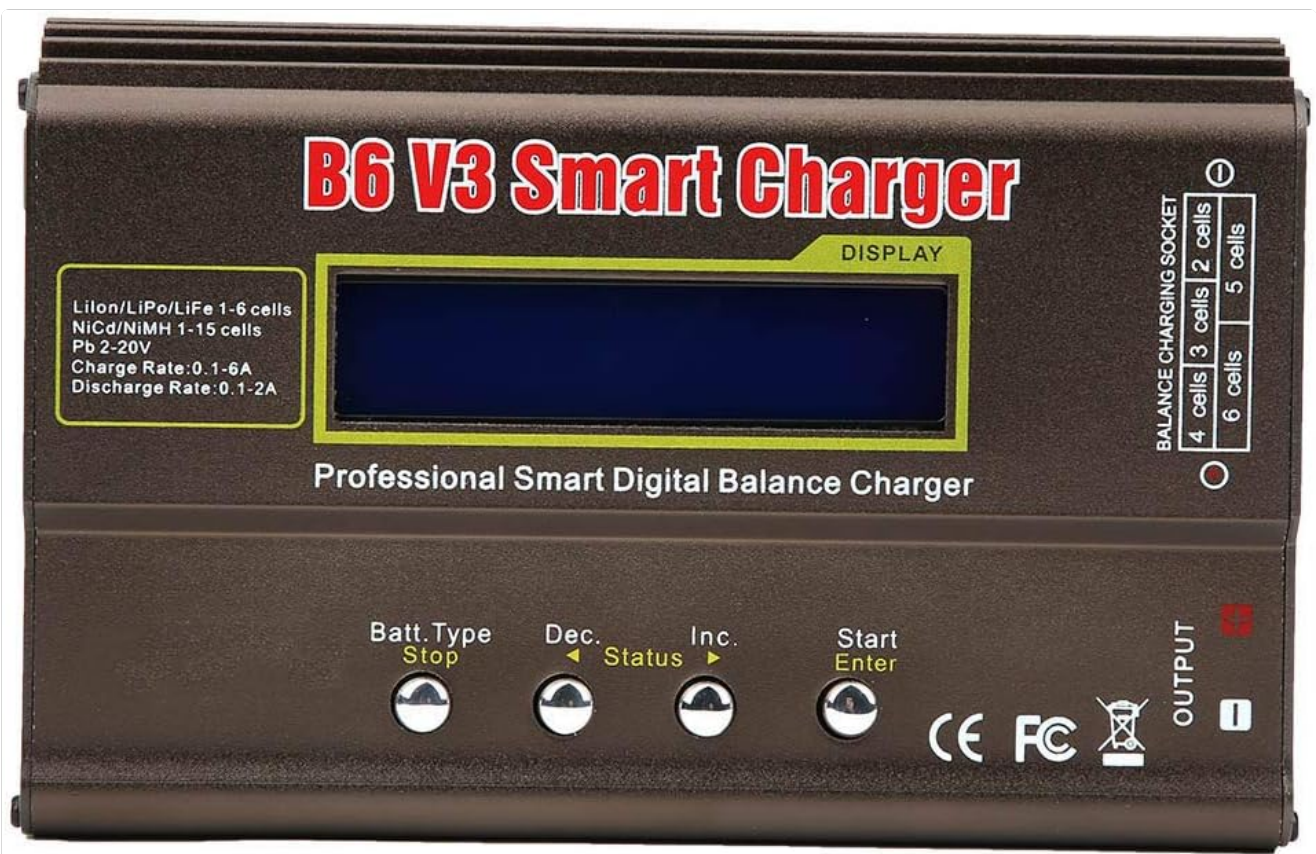


Figure 3: Front panel of the charger showing the LCD display and control buttons.

4. OPERATING INSTRUCTIONS

Follow these steps to operate your Walfront B6 V3 Smart Balance Battery Charger:

1. **Power On:** Ensure the charger is connected to power. The LCD screen will display the main menu.
2. **Select Battery Type:** Use the 'Batt. Type/Stop' button to navigate through the main menu and select the correct battery type (e.g., LiPo, NiMH).
3. **Choose Charging Mode:** Use the 'Inc.' and 'Dec.' buttons to select the desired charging mode (e.g., Balance Charge, Fast Charge, Storage, Discharge).
4. **Set Parameters:** Adjust the charging current (Amps) and cell count (for LiPo/LiFe/LiHv) using the 'Inc.' and 'Dec.' buttons. Refer to your battery's specifications for recommended charging rates.
5. **Start Charging:** Press and hold the 'Start/Enter' button to confirm the settings and begin the charging process. The charger will perform a pre-charge check.
6. **Monitor Progress:** The LCD screen will display real-time charging information, including current, voltage, and elapsed time.
7. **Stop Charging:** To stop charging at any time, press the 'Batt. Type/Stop' button.



Balance Battery Charger

Rechargeable high voltage battery
automatic identification of battery cell number.
Intelligent charging,
can measure the internal resistance of the battery for better performance.
Microprocessor control
high power and high performance circuit

Figure 4: Detailed view of the charger's LCD screen and control buttons.

5. MAINTENANCE

- **Cleaning:** Regularly clean the charger's exterior with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and moisture when not in use.
- **Cable Inspection:** Periodically inspect all charging cables and connectors for signs of wear, damage, or corrosion. Replace damaged cables immediately.
- **Ventilation:** Ensure the charger's ventilation slots are clear and unobstructed during operation to prevent overheating.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not power on	No power supply; faulty adapter/cable	Check power connections; test with another power source if available.
Charging error message on LCD	Incorrect battery type/settings; poor connection; damaged battery	Verify battery type and charging parameters; re-connect battery; inspect battery for damage.
Charger gets excessively hot	Poor ventilation; overcurrent charging	Ensure clear ventilation; reduce charging current; operate in a cooler environment.
Battery not charging	Incorrect connection; battery deeply discharged; charger fault	Check all connections; attempt to recover deeply discharged battery (if supported and safe); contact support if issue persists.

7. SPECIFICATIONS

Model: B6V3

Operating Voltage Range: DC 11.0-18.0 V / AC to DC Adapter

Maximum Charge Power: 80W

Maximum Discharge Power: 5W

Charge Current Range: 0.1-6.0A

Discharge Current Range: 0.1-2.0A

Balanced Current Consumption: 400mAH/unit

Supported Battery Types:

- Lilon/LiPo/LiFe/LiHv: 1-6 cells
- NiCd/NiMH: 1-15 cells
- Lead-acid (Pb): 2-20V
- Smart Battery: I, II, III

Material: Aluminum Alloy

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Walfront customer service through their official channels. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question