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› XTAR VX4 V2 Battery Charger User Manual

XTAR VX4 V2

XTAR VX4 V2 Battery Charger User Manual

Model: VX4 V2

1. INTRODUCTION

The XTAR VX4 V2 is a sophisticated 4-slot battery charger designed for wide compatibility and advanced functionality. It supports simultaneous charging of various battery chemistries and sizes, including 1.5V Li-ion (AA/AAA), 1.2V Ni-MH (AA/AAA/A/SC/C/D), 3.6V/3.7V Li-ion, and 3.2V LiFePO4 batteries. Key features include an intuitive LCD display, multiple charging modes, and a unique capacity testing function for 1.5V Li-ion batteries.

reverse polarity protection.

3. PACKAGE CONTENTS

The XTAR VX4 V2 SET package includes the following items:

- XTAR VX4 V2 Charger Unit
- PD 20W Power Adapter
- USB C-to-C Charging Cable
- User Manual



Figure 2: Package Contents for the XTAR VX4 V2 SET.

4. SPECIFICATIONS

Attribute	Value
Brand	XTAR

Model Number	VX4 V2
Product Dimensions (D x W x H)	4.1 x 17.2 x 13 cm
Current Rating	3 Amperes
Number of Items	1
UPC	768561800131
GTIN	768561800131
Country of Origin	China

5. SETUP GUIDE

5.1. Connecting the Charger

1. Connect the USB C-to-C charging cable to the charger's input port.
2. Plug the other end of the cable into the provided PD 20W power adapter.
3. Insert the power adapter into a suitable wall outlet. The charger's LCD display will illuminate, indicating it is ready for use.

5.2. Inserting Batteries

The XTAR VX4 V2 features four independent charging slots. Ensure batteries are inserted with correct polarity (+/-) matching the indicators in the slots.

4スロット独立充電 幅広い互換性

適用電池タイプと型番:

適合電池長範囲は34-80 mm

3.6V/3.7V Li-ion

3.2V LiFePO4

10440/14500/14650/16340/
17335/17500/17670/18350/
18490/18500/18650/18700/
20700/21700/22650/25500/
26650/32650

1.5Vリチウムイオン電池

AAA/AA

1.2Vニッケル水素電池

AAA/AA/A/SC/C/D



Figure 3: Correct battery insertion into the charger slots.

6. OPERATING INSTRUCTIONS

6.1. LCD Display Overview

The LCD display provides comprehensive information for each charging slot:

- **Battery Voltage:** Displays the current voltage of the battery.
- **Charging Current:** Shows the current charging rate in Amperes (A) or milliamperes (mA).
- **Battery Type:** Indicates whether the battery is Ni-MH, Li-ion, or LiFePO4.
- **Charged Capacity:** Displays the accumulated charged capacity in mAh or mWh.

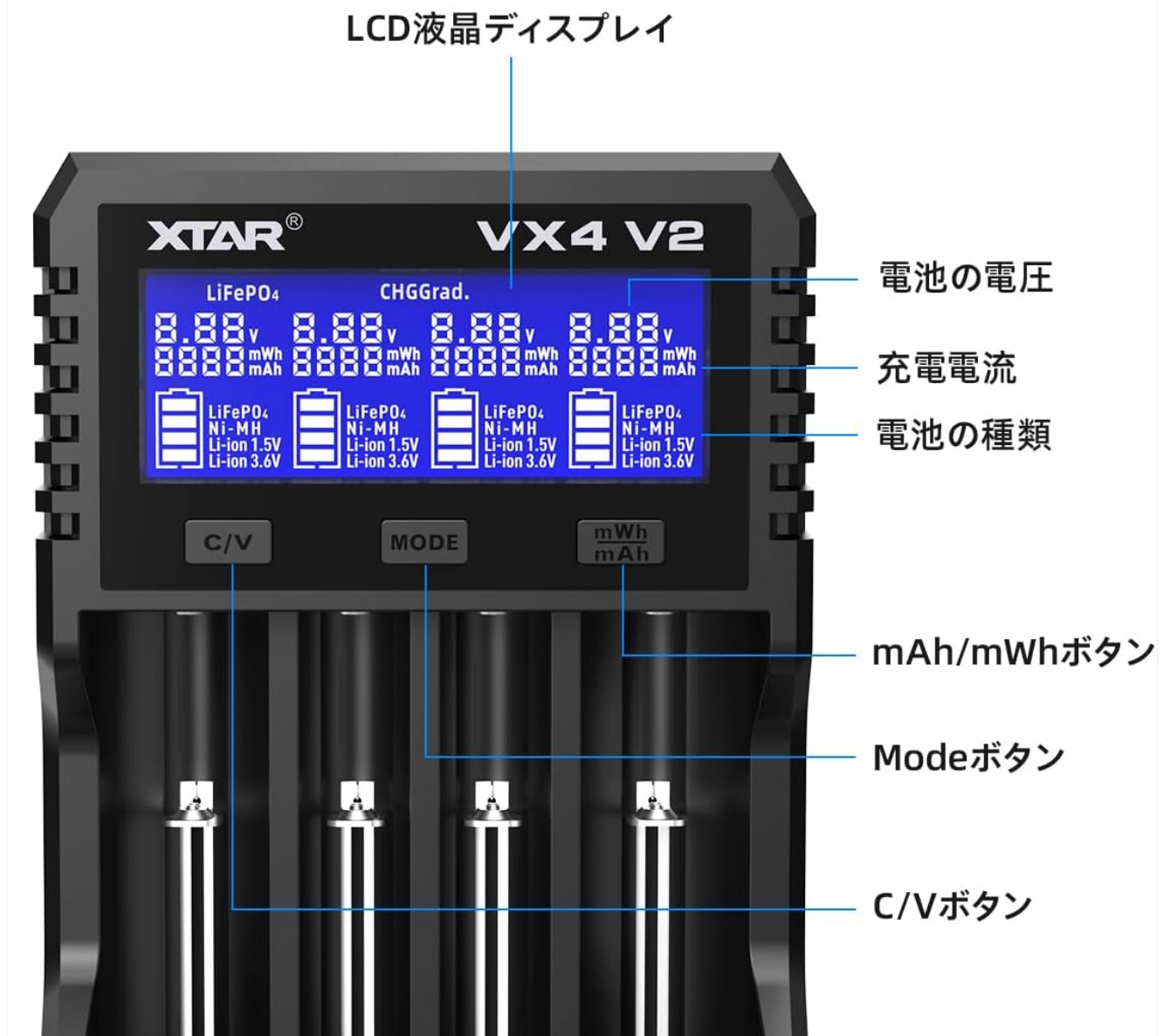


Figure 4: Detailed view of the LCD display information.

6.2. Charging Modes

The charger offers two main charging modes:

- **Standard Charging Mode:** Default mode for 1.5V Li-ion (AA/AAA), 1.2V Ni-MH (AA/AAA), and 3.6V/3.7V Li-ion (10400-32650) batteries.
- **LiFePO4 Charging Mode:** For 3.2V LiFePO4 batteries.

To switch between modes, **long-press the [C/V] button**. The display will update to reflect the selected mode.

2種類の充電モードの切り替え

【C/V】ボタンを長押しすると、対応する電池の充電モードを自由に切り替えることができる

標準充電モード

□ 3.6/3.7V Li-ion

□ 1.5V Li-ion

□ 1.2V Ni-MH

LiFePO4充電モード

□ 3.2V LiFePO4

□ 1.5V Li-ion

□ 1.2V Ni-MH



Figure 5: Switching between Standard and LiFePO4 charging modes.

6.3. Battery Capacity Measurement (Grad Mode)

The XTAR VX4 V2 can measure the actual capacity of 1.5V Li-ion, Ni-MH, and 3.6V/3.7V Li-ion batteries.

1. Ensure the charger is in Standard Charging Mode.
2. **Long-press the [Mode] button** to enter Grad (Capacity Measurement) mode.
3. The charger will proceed to discharge and then fully charge the battery to determine its actual capacity.
4. Once complete, "done" and the battery capacity will be displayed alternately.
5. Press the **[mWh/mAh] button** to view the energy (mWh) or capacity (mAh) value for 1.5V Li-ion batteries.

XTAR®

電池の容量測定

【Mode】ボタンを長押しして【Grad】分容量モードに入り、
電池の容量測定を行います。



↓ テスト完了後の画面:実際の容量と done を交互に点滅



このモードは単三、単四リチウム電池とニッケル水素電池、
及び3.6V/3.7V 14500 ~ 32650リチウム電池とリン
酸鉄リチウム電池の実際の容量を試験することができる。

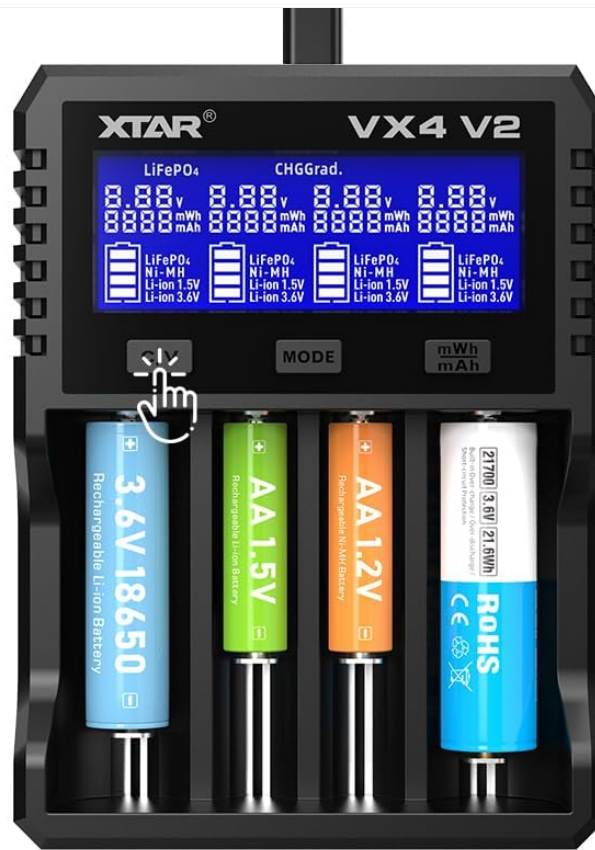
Figure 6: Battery capacity measurement process and results.

6.4. Adjusting Charging Current

The charger allows for manual selection of charging current based on the number of batteries and power adapter capabilities.

- **1 Battery:** Up to 3A
- **2 Batteries:** Up to 2A per slot
- **4 Batteries:** Selectable currents of 1A, 0.5A, or 0.25A per slot.

Note: AA/AAA rechargeable batteries have a fixed charging current of 0.5A. A PD 20W power adapter is recommended for optimal performance.



1本電池充電
3000mA

2本電池充電
2000mA

4本電池充電
1000mA

4本電池充電
500mA

4本電池充電
250mA

1.2Vニッケル水素電池充電電流固定0.5A

*3Aの充電を実現するには、CH1-CH4スロットにバッテリーを1本だけ入れ、PD 20Wのアダプタを組み合わせる必要があります。

Figure 7: Customizable charging current settings.

6.5. Supported Battery Types and Sizes

The XTAR VX4 V2 supports a wide range of rechargeable batteries:

- **1.5V Li-ion:** AAA, AA
- **1.2V Ni-MH:** AAA, AA, A, SC, C, D
- **3.6V/3.7V Li-ion:** 10440, 14500, 14650, 16340, 17335, 17500, 17670, 18350, 18490, 18500, 18650, 18700, 20700, 21700, 22650, 25500, 26650, 32650
- **3.2V LiFePO4:** (Same sizes as 3.6V/3.7V Li-ion)

7. SAFETY PRECAUTIONS

To ensure safe operation and prevent damage, please observe the following:

- Only charge compatible rechargeable batteries. Do not attempt to charge non-rechargeable batteries.
- Ensure correct battery polarity (+/-) when inserting batteries into the charger slots.
- Do not leave the charger unattended during operation, especially when charging for extended periods.

- Keep the charger away from water, moisture, and high temperatures.
- Do not disassemble or modify the charger. This will void the warranty and may cause hazards.
- Use only the provided power adapter or a compatible PD 20W adapter for optimal performance and safety.
- If any abnormal behavior (e.g., excessive heat, smoke, unusual odors) is observed, immediately disconnect the charger from the power source.



Figure 8: The charger incorporates multiple protection features for safe operation.

8. 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.
- **Inspection:** Periodically inspect the charging cable and adapter for any signs of damage. Do not use if damaged.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on	No power connection; faulty cable/adapter	Check power outlet, cable, and adapter connections. Try a different outlet or cable.
Battery not charging	Incorrect battery insertion; incompatible battery type; battery too deeply discharged	Ensure correct polarity. Verify battery compatibility. The charger has a 0V activation function for deeply discharged batteries.
Display shows "Error"	Short circuit; reverse polarity; damaged battery	Remove and reinsert the battery correctly. Inspect the battery for damage. If the error persists, the battery may be faulty.
Slow charging speed	Low power input; multiple batteries charging simultaneously	Ensure a PD 20W adapter is used. Charging current is distributed among multiple batteries. Refer to section 6.4 for DIY charging current options.

10. WARRANTY AND SUPPORT

10.1. Warranty Information

The XTAR VX4 V2 Battery Charger comes with a **1-year manufacturer warranty** from the date of purchase. This warranty

covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

10.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your XTAR VX4 V2 charger, please contact XTAR customer support through the official XTAR website or your point of purchase. Please have your product model and purchase date available when contacting support.