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› XTAR VC2 Charger with LCD Display Screen User Manual

XTAR VC2

XTAR VC2 Charger User Manual

Model: VC2

1. PRODUCT OVERVIEW

The XTAR VC2 is an intelligent two-bay battery charger equipped with an LCD display screen, designed for efficient and safe charging of various Li-ion batteries. Its compact design makes it ideal for both home and travel use.



Image: XTAR VC2 Charger and included USB cable.

Compatible Battery Types:

This charger is compatible with 3.6V/3.7V Li-ion IMR/INR/ICR rechargeable batteries, including the following sizes:

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

NOTE: Protected 20700/21700 batteries cannot be charged due to their length.

Greatest compatibility

Compatible with different kinds and sizes of most batteries.

Note: Cannot charge protected 20700/21700 batteries.

Apply to 3.6V/3.7V

Li-ion/IMR/INR/ICR batteries:

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



Image: Visual representation of the XTAR VC2 charger highlighting its broad battery compatibility.

2. KEY FEATURES

- Each charging channel operates independently.
- Utilizes a three-stage charge algorithm (TC-CC-CV) for optimized charging.
- Automatically cuts off power when the battery is fully charged to prevent overcharging.
- Features a precision cut-off voltage at 4.2V.
- Compatible with small capacity batteries.
- LCD display provides real-time charging status, including current, voltage, and charged capacity (mAh).



Image: Icons illustrating multiple protection features of the charger, including over-current, over-voltage, over-charge, short circuit, and over-heat protection.

3. SETUP

3.1 Unboxing and Initial Inspection

Upon receiving your XTAR VC2 charger, carefully remove all components from the packaging. Verify that the charger, USB cable, and user manual are present. Inspect the charger for any visible damage.



Image: The XTAR VC2 charger, its retail box, USB cable, and user manual.

3.2 Connecting the Charger

The XTAR VC2 charger is powered via a Micro USB port. Connect the provided USB cable to the charger's Micro USB port and the other end to a compatible USB power source (e.g., a wall adapter, computer USB port, power bank, or car charger). Ensure the power source provides sufficient current for optimal charging (e.g., 0.5A or higher).

Charge Anywhere Anytime



Car charge



Socket



Adapter



Notebook

Image: The XTAR VC2 charger being powered by a car charger, wall socket, USB adapter, and laptop, demonstrating its versatility.

4. OPERATING INSTRUCTIONS

4.1 Inserting Batteries

Carefully insert the compatible Li-ion batteries into the charging bays. Ensure the positive (+) and negative (-) terminals of the battery align correctly with the corresponding markings in the charger slot. The charger features sliding contacts to accommodate various battery lengths.



Image: Detailed view of the XTAR VC2 charger, labeling its Micro USB port, charging status screen, anode, cathode, and matte material finish.

4.2 Understanding the LCD Display

Once batteries are inserted and the charger is powered, the LCD display will illuminate and show real-time charging information for each independent channel. This includes:

- **Charging Current:** Indicated in Amperes (A).
- **Battery Voltage:** Displayed in Volts (V).
- **Charged Capacity:** Shown in milliampere-hours (mAh), indicating how much capacity has been added to the battery during the current charging cycle.

The display will show 'FULL' when a battery is completely charged, and the charger will automatically stop charging that bay.

□

Image: A close-up view of the XTAR VC2's LCD display, showing real-time charging parameters for two batteries.

4.3 Charging Process

The charger automatically detects the battery type and applies the appropriate charging current (up to 0.5A per slot). The three-stage (TC-CC-CV) charging algorithm ensures optimal battery health and longevity. Once charging is complete, the charger will cease power delivery to prevent overcharging.



Image: A visual indicating the maximum charging current of 0.5A per slot on the XTAR VC2 charger.

5. MAINTENANCE

- Keep the charger clean and dry. Use a soft, dry cloth to wipe the surface.
- Avoid exposing the charger to extreme temperatures, direct sunlight, or high humidity.
- Do not attempt to disassemble or modify the charger, as this will void the warranty and could be dangerous.
- Store the charger in a cool, dry place when not in use.



Image: An illustration highlighting the ventilation design of the XTAR VC2 charger for heat dissipation.

6. TROUBLESHOOTING

If you encounter issues with your XTAR VC2 charger, please refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Charger not powering on / LCD not displaying	No power, faulty USB cable, or power source issue.	Ensure USB cable is securely connected. Try a different USB port or power adapter.
Battery not charging / Display shows 0% or no progress	Incompatible battery, incorrect battery insertion, or faulty battery.	Verify battery compatibility (3.6V/3.7V Li-ion). Re-insert battery ensuring correct polarity. Test with a known good battery. Note: Protected 20700/21700 batteries may not fit.
Charger gets warm during operation	Normal operation during charging.	This is normal. Ensure adequate ventilation around the charger. If it becomes excessively hot, disconnect immediately.

Problem	Possible Cause	Solution
LCD display is dim or flickering	Insufficient power from USB source.	Use a higher current USB power adapter (e.g., 1A or 2A).

7. SPECIFICATIONS

Specification	Value
Product Dimensions	3 x 1 x 2 inches (7.62 x 2.54 x 5.08 cm)
Item Weight	3.84 ounces (109 grams)
Manufacturer	XTAR
Model Number	VC2
Output Voltage	4.2 Volts
Date First Available	February 4, 2015

8. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official XTAR website. You can also visit the [XTAR Store on Amazon](#) for more details and contact options. Please retain your proof of purchase for any warranty claims.

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