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› [XTAR X2 Smart Charger Instruction Manual](#)

**XTAR X2**

## **XTAR X2 Smart Charger Instruction Manual**

Model: X2

### **1. INTRODUCTION**

Thank you for choosing the XTAR X2 Smart Charger. This device is designed to safely and efficiently charge a wide range of rechargeable Li-ion and Ni-MH/Ni-Cd batteries. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your batteries and charger.



Image 1.1: XTAR X2 Smart Charger with included AC power cable and Micro USB cable.

## 2. SAFETY INFORMATION

- Always use the charger in a dry, well-ventilated area.
- Do not attempt to 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. Incorrect insertion can damage the charger and batteries.
- Avoid short-circuiting the charger terminals.
- Do not disassemble, modify, or attempt to repair the charger. Contact XTAR support for assistance.
- Keep the charger away from water, moisture, direct sunlight, and high temperatures.
- The charger is constructed from flame-retardant material and includes multiple protection features such as over-charge, over-discharge, over-heat, reverse polarity, and short-circuit protection.
- Temperature monitoring is integrated into the design for enhanced safety.
- **Important Note:** This charger cannot charge protected 20700/21700 batteries.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Xtar X2 Smart Charger Unit
- AC Power Cable
- Micro USB Cable
- Instruction Manual (this document)



Image 3.1: Contents of the Xtar X2 Smart Charger package.

## 4. PRODUCT FEATURES

- **Fast Charging:** Capable of fully charging a 18650 2500mAh battery in approximately 1.5 hours with a real 2A charge current.
- **Dual Input Ports:** Features both an AC input port for indoor use with the power cord and a Micro USB port for outdoor or travel use.
- **Innovative LCD Screen:** Displays real-time battery power percentage, voltage, charge current, and charged capacity, providing comprehensive battery status information.
- **0V Activation Function:** Can revive over-discharged batteries, extending their usable life.
- **Comprehensive Protection:** Includes 6 protection mechanisms (over-charge, over-discharge, over-heat, reverse polarity, short circuit, temperature monitoring) and is certified by CE, FCC, RoHS.

## Quick Charge Time

Fully charges a 18650 2500mAh battery in 1.5hrs with real 2A charge current.



Image 4.1: The XTAR X2 charger indicating a 2A charging current for quick charging.

# Two Input Ports

# Charge Anytime and Anywhere



Image 4.2: Rear view of the XTAR X2 charger showing the Micro USB and AC input ports.

## 5. SETUP

- 1. Connect Power:** Choose one of the following methods to power the charger:
  - For indoor use, connect the AC power cable to the charger's AC input port and then to a wall outlet.
  - For outdoor or travel use, connect the Micro USB cable to the charger's Micro USB input port and to a compatible USB power source (e.g., power bank, USB adapter).
- 2. Power On:** The charger's LCD screen will illuminate, indicating it is ready for use.

## 6. OPERATING INSTRUCTIONS

- 1. Insert Batteries:** Carefully insert one or two rechargeable batteries into the charging slots, ensuring correct polarity (+ and -). The charger will automatically detect the battery type and begin charging.
- 2. Monitor Charging:** The innovative LCD screen will display real-time charging information for each slot, including:
  - Battery power percentage
  - Battery voltage
  - Charge current
  - Battery charged capacity (mAh)
- 3. Charging Completion:** The charger will automatically stop charging when the batteries are fully charged. The LCD display will indicate full charge status.

4. **Remove Batteries:** Once charging is complete, carefully remove the batteries from the slots.

## Innovative LCD Screen Display

Shows battery power percentage, battery voltage, charge current, battery charged capacity



Image 6.1: The XTAR X2's LCD screen showing detailed charging parameters for inserted batteries.



Image 6.2: XTAR X2 charger with two batteries correctly inserted into the charging slots.

## 7. BATTERY COMPATIBILITY

The XTAR X2 Smart Charger is compatible with a wide range of rechargeable batteries:

- **3.6V/3.7V Li-ion/IMR/INR/ICR Batteries:**

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

- **1.2V Ni-MH/Ni-CD Batteries:**

AAAA, AAA, AA, A, SC, C

**Note: This charger is not compatible with protected 20700/21700 batteries.**

# Great Compatibility

3.6V/3.7V Li-ion/IMR/INR/ICR

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

1.2V Ni-MH/Ni-CD

AAAA/AAA/AA/A/SC/C

Note: Cannot charge protected 20700/21700 batteries



Image 7.1: Visual representation of battery types compatible with the XTAR X2 charger.

## 8. MAINTENANCE

- Cleaning:** Disconnect the charger from power before cleaning. Use a soft, dry cloth to wipe the charger's 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.
- Avoid Impact:** Protect the charger from drops or heavy impacts, which can damage internal components.

## 9. TROUBLESHOOTING

### • Charger Not Powering On:

Ensure the power cable (AC or Micro USB) is securely connected to both the charger and the power source. Try a different power outlet or USB power source.

### • Battery Not Charging / Error Display:

Check that the battery is inserted with correct polarity. Ensure the battery is a compatible rechargeable type (refer to Section 7). If the battery is severely over-discharged (0V), the charger's 0V Activation Function may attempt to revive it; allow some time for this process. If the issue persists, the battery may be faulty.

### • Slow Charging:

Ensure you are using a power source capable of delivering sufficient current (e.g., a 2A USB adapter for Micro USB input).

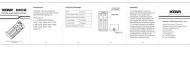
## 10. SPECIFICATIONS

Specification	Value
Brand	XTAR
Model	X2
Color	Black
Item Weight	125 Grams
Output Voltage	24 Volts
Input Voltage	240 Volts

## 11. WARRANTY AND SUPPORT

The XTAR X2 Smart Charger comes with a standard manufacturer's warranty. For specific warranty terms, claims, or technical support, please refer to the warranty card included in your package or visit the official XTAR website. You may also contact XTAR customer service through their authorized retailers.

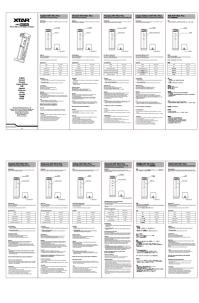
### Related Documents - X2

 XTAR <sup>®</sup> SC1 PLUS Speedy Li-ion/Ni-MH Battery Charger  XTAR Electronics Co., Ltd. Address: No. 100, Lane 100, Shuangliu Industrial Park, Right Area, Longgang District, Shenzhen, Guangdong, China 518109 Tel: +86 755 2866 0000 Email: <a href="mailto:info@xtarelec.com">info@xtarelec.com</a> Website: <a href="http://www.xtar.com">www.xtar.com</a>	<a href="#"><u>XTAR SC1 Plus Battery Charger: Speedy Li-ion &amp; Ni-MH Charging and Power Bank Functionality</u></a> The XTAR SC1 Plus is a versatile and speedy charger for Li-ion and Ni-MH batteries, also serving as a portable power bank. Featuring Type-C input, it supports various battery sizes including protected 26800 cells, and offers LED indicators for status, a 12-month warranty, and anti-fake verification.
	<a href="#"><u>XTAR MC2 Portable Li-ion Battery Charger - User Manual &amp; Specifications</u></a> Comprehensive guide to the XTAR MC2 portable Li-ion battery charger, covering features, technical specifications, operation, supported batteries, LED indicators, customer service, and safety notices.
	<a href="#"><u>XTAR MC2 Portable Li-ion Battery Charger User Manual</u></a> Comprehensive user manual for the XTAR MC2 portable two-slot Li-ion battery charger. Includes specifications, operation instructions, charging tips, customer service information, warranty details, and safety notices.
	<a href="#"><u>XTAR C4-EVO Battery Charger User Guide</u></a> Comprehensive user guide for the XTAR C4-EVO battery charger, detailing its features, operation, and specifications for various battery types.



### [Xtar VC2 USB Battery Charger Review: Features, Performance, and Specifications](#)

A comprehensive review of the Xtar VC2 dual-channel USB battery charger, detailing its features, supported battery types, charging performance, and technical specifications.



### [XTAR ANT MC1 Plus USB Battery Charger User Manual](#)

Comprehensive user guide for the XTAR ANT MC1 Plus, a simple and smart USB battery charger. Learn about its features, specifications, operation, and safety guidelines for various lithium-ion and LiFePO4 batteries.