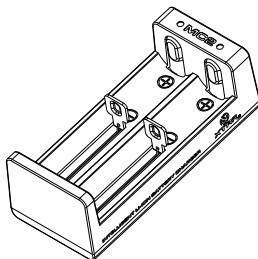


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 HONGKONG XTAR CO., LTD



**MC2**

INTELLIGENT CHARGER MANUAL

## ABOUT XTAR

The name XTAR, derived from X-STAR, representing the innumerable unknown stars, brings us an infinite imagination and expectation. XTAR logo consists of spherical figure and characters, implying the modest spirit of our company, XTAR being tolerant to diversity and our aspirations towards continuing development and innovation.

In 2006, XTAR logo came into conception. In 2007, Shenzhen Winners Brother Import & Export Co., Ltd was established in Shenzhen, China. Later in 2009, in order that XTAR brand better marches on the international markets, Hong Kong XTAR Co., Ltd was established in Hong Kong.

By adhering to the philosophy of the quality of China and the unwavering pursuit of brand construction and product quality, we've already sold XTAR products to over 120 countries and regions like USA, Germany, Australia, Japan, North Korea, Russia

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## INTRODUCTION

XTAR MC2 is a professional portable intelligent lithium-ion battery charger with two slots charging independently. It's compatible with 14500/14650/16340/17500/17670/ 18350/18500 /18650/18700/26650 3.6V/3.7V rechargeable Li-ion batteries.

With a three-stage charge algorithm, 0V activation of batteries, and real-time detection of battery state, MC2 charges batteries intelligently and safely. Meanwhile, the built-in reverse-polarity and short-circuit protection are great insurance for safely charging.

MC2 charger applies to all kinds of Micro USB interface for power supply. The function of intelligently identifying input power and automatically shifting charge current creates more convenience and flexibility for charging.

With over-heat protection function, when operate in high temperature, MC2 will automatically lower charge current to prevent over-heating burns. In addition, MC2 adopts soft start function to avoid damage from surge charge current.

MC2 has under voltage lockout and self-start function.

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etc with distributors all over the world. Meanwhile, XTAR brand has successfully registered in many countries and obtained over 30 patents. XTAR products mainly have passed CE, ROHS certifications; the adapters assorted have also gained many international authentication certifications, such as CE, UL, PSE, SAA, MEPS, C-Tick etc.

With prudent and innovative personalities and courage to face challenges, XTAR staffs dedicate themselves to creative design, high quality and impeccable after-sale service, which benefit every customer. Because of your supports and trust, XTAR becomes steady and extraordinary and will be better.

We always believe China's Got Quality.

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Besides, MC2 has activation function, which helps to repair the over-discharged batteries.

## CHARGE PARAMETER

### ■ Charging parameter:

Input Power: 5.0V DC/1000mA  
CC Current: 500mA or 250mA  
Cut-Off Voltage: 4.20V  
Operation Temperature: 0-40 C

## PERFORMANCE

### ■ LED Indicators:

**Red on:** Battery is being charged, activated or channels are performing short circuit.

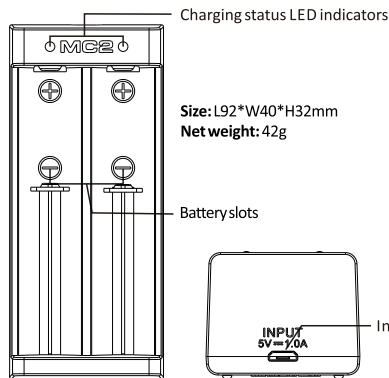
**Green on:** Any of the following conditions:

- Charge is complete
- No battery is inserted
- Poor connection
- Standby mode

**Lights off:** Battery polarity is reversed

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## THE MC2 CHARGER



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## USAGE

- MC2 is compatible with two 14500/14650/16340/17500/17670/18350/18500/18650/18700 and one 26650 3.6V/3.7V rechargeable lithium-ion batteries. Attempting to charge other battery types may be hazardous, and can damage the batteries and charger.
- Connect the adaptor (5V/1A) to MC2, indicators turn green, MC2 performs standby mode.
- When MC2 is in standby mode, insert over discharged battery (battery voltage  $\leq$  around 2.0V) into the channel properly, MC2 shifts to activated state. When battery recovery finished, battery starts being charged.
- MC2 can intelligently identify the input power and automatically adjust the charge current:
  - When input power is 5VDC/1.0A, the constant charge current would be 500mA.
  - When input power is 5VDC/0.5A with two batteries simultaneously charging, the current through both channels would be 250mA, while with only one battery being charged, the charge current would be 500mA.

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- When complete charging, indicators are green on. It's recommended to remove the batteries after batteries being fully charged.

## NOTICE

- Please charge compatible batteries with MC2. Attempting to charge other battery types may be hazardous, and can damage the batteries and charger.
- MC2 has integrated short-circuit protection to protect the charger if a short circuit occurs in a battery. Note that this short-circuit protection protects the charger; it does not prevent batteries from short-circuiting internally.
- When in standby mode, if the channel is of short circuit, the indicator would be red on. It will do no harm to the charger.
- Keep MC2 away from water and excessive dust.
- Do not disassemble MC2. Damage may result.
- Do not operate the charger if it appears damaged in any way.

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## TIPS

- Because of different battery types, capacities, and over-discharge depths, the battery-revive time may vary; heavily over-discharged batteries may not be able to be revived.
- When charge battery with voltage higher than 4.0V, please insert the battery into slot first, then connect the adaptor.
- When charging completed, MC2 will stop supplying power to the batteries, it's recommended to remove the batteries. When system detects the batteries' voltage is lower than 4.1V, MC2 will automatically restart charging if batteries are left in slots for a long time after charge complete.
- If this manual description has differences with the official website, please refers to official website.

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## WARRANTY

- 15 days free replacement. We will repair or replace a charger within 15 days of purchase if it is afflicted with a manufacturing defect. If the problem calls for a replacement, we will replace the charger with the same model as the one you bought. If the model has been discontinued, customers will receive a product with similar or improved performance.
- 24 months free repair. We offer free repair within 24 months of purchase if problems develop with normal use.
- Limited lifetime warranty. If problems develop after 24 months of the purchase date, we will charge for parts. The total repair fee will assess according to the cost of the replaced materials. If damage to the charger is grave, XTAR will contact distributors with a quote who should contact the customers to decide whether to exchange the parts or not. Freight should be paid by distributors or customers.
- (This warranty is not applicable for damages cause by artificial damage or intentional force.)

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## WEBSITE & ANTI-FAKE INQUIRY

- Welcome to visit our company website to get more information. <http://www.xtarlight.com>
- Anti-fake inquiry: A group of eighteen-digit number could be gained by scraping the anti-counterfeiting label on our product or package. Then, input it to the corresponding query window in our service column of our official website to distinguish the product's authenticity. The serial number does the same work.
- **Thank you for choosing our excellent products, your satisfaction and feedbacks are essential to our progress.**

RoHS CE 

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