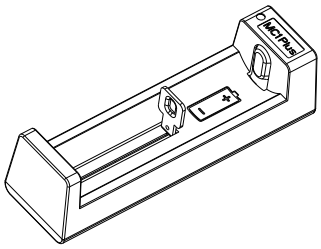

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XTAR®

MC1 Plus

CHARGER MANUAL

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.

XTAR always believe in China's Got Quality.

Shenzhen XTAR Electronics Co.,Ltd

MC1 Plus CHARGER MANUAL

Introduction:

- The MC1 Plus is a professional portable lithium-ion battery charger with Micro USB charging port.
- Apply to one piece of 10440/ 14500/ 14650/ 16340/ 17335/ 17500/ 17670/ 18350/ 18500/ 18650/ 18700/ 22650/ 25500/ 26650 3.6/3.7V rechargeable Li-ion battery. With TC/CC/CV charging algorithm, 0V activation function, and real-time detection of battery state, the MC1 Plus charges battery intelligently and safely.

Charge Parameter:

Input	5.0V DC/1A
Constant current output	500mA
	1000mA
Cut Off Voltage	4.20V
Operation Temperature	0-40 ℃

Features:

- MC1 Plus has built-in over charge, reverse polarity and short circuit protections. When MC1 Plus is working at high ambient temperature, it will automatically lower charge current to avoid overheating. It is a simple charger but safe enough to take care of the battery.
- Real TC/CC/CV charging algorithm which is best for li-ion batteries.
- Automatically adjust charging current 0.5A or 1A for different batteries.
- Max charging current 1A save your time effectively.
- Intelligently cut off charging after the battery is fully charged. No need to worry about over charging issue.
- Soft-start function avoids the damage from a large current surge.
- 0V activation function revives over discharged battery, save your money and good for environment.

Performance:

- **LED indicator:**

Red on: ■Battery is being charged.
■Battery being activated.
■Slot short circuit

Green on: ■Charging is completed.
■No battery is inserted.
■Poor connection.

No LED on: Battery polarity is reversed.

Usage:

- Before charging battery, please check the battery type and make sure it is compatible with the MC1 Plus charger.
- Connect MC1 Plus to outer power supplier with standard USB cable, the charger goes into standby with green LED on.
- Insert one battery into the charging slot with correct polarity. Charging gets started with red LED on.
- The MC1 Plus will stop charging when the battery is fully charged, and LED turns from red to green. It is recommended to remove the battery out of the charger.

Notice:

- The MC1 Plus can only be used for 10440/ 14500/ 14650/ 16340/ 17335/ 17500/ 17670/ 18350/ 18500/ 18650/ 18700/ 22650/ 25500/ 26650 3.6/3.7V rechargeable Li-ion battery. Attempting to charge other battery types may be hazardous or cause damage to the battery and charger.
- Keep the MC1 Plus charger away from water and excessive dust.
- Do not disassemble the MC1 Plus charger, damage may occur.
- Do not use the MC1 Plus once it is broken.

Tips:

- Because of different battery types, capacities, and over-discharge depths, the battery activation time may vary, heavily over-discharged batteries may not be revived.
- To top up a battery with voltage about 4.0V or higher, insert the battery into the charger before plugging in the AC power cable. If you take the opposite operation, MC1 Plus will not charge the battery.
- It is recommended to remove battery from the charger once charging has completed. If the battery left in the charger for a long time, the charger will automatically restart the charge cycle when the battery voltage drops below4.1V.
- The MC1 Plus is integrated short-circuit protection to protect the charger when short circuit occurs in a battery. Note that this short circuit protection only protects the charger itself, but does not prevent battery from short-circuiting internally. Please remove the battery before you start to check this function.

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.)

Website and Anti-fake inquiry:

- Welcome to visit our company website to get more information.
  http://www.xtarlight.com
- **FIlow us** on **Facebook**:
  www.facebook.com/**ShenzhenXTAR**
- Anti-fake inquiry: A group of eighteendigit 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.**

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