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The name XTAR, derived from "X-STAR", representing the innumerable unknown stars in the universe, brings to mind a vision of infinite imagination. The XTAR logo, a trademark of Hong Kong XTAR Co., Ltd., contains a spheroidal figure and character that together represent the modest spirit of our company, XTAR being tolerant to diversity and our aspirations towards continuing development and innovation.

HONG KONG XTAR CO., LTD



### ■ Introduction:

- The MC1 is a professional portable lithium-ion battery charger with Mini appearance plus mini-USB charging port.
- MC1 can charge one 10440/ 14500/ 14650/ 16340/ 17500/ 17670/ 18350/ 18500/ 18650/ 18700/ 22650/ 25500/ 26650 3.6/3.7V rechargeable Li-ion battery. With a three-stage charge algorithm, battery activation feature, and real-time detection of battery status, MC1 charges batteries intelligently and safely.
- MC1 provides reverse-polarity and short-circuit protection. When MC1 is work at high ambient temperature, it will automatically lower charge current to avoid overheating. Soft-start function, to prevent damage to the battery from a large current surge.
- Built-in activation function allows MC1 to recover the over discharged batteries.

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### ■ Charge Parameter:

Input	5.0V DC/500mA
Constant current output	500±50mA
Termination Voltage	4.20±0.05V
Termination Current	<40mA
Operation Temperature	0-40 °C

### ■ Performance:

#### ● LED indicator:

**Red on:** Red on: Battery is being charged.

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

- Charge is complete.
- No battery is inserted.
- Being activated.
- Poor connection.
- Slot is being short circuit.

**No LED on:** Battery polarity is reversed.

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### ■ Usage:

Before charging batteries, check that the battery types are compatible with the MC1.

**Note:** Damage can occur to the batteries and charger if improper batteries are inserted into the MC1.

- Connect the MC1 to outer power supplier with USB cable, indicator will be green on; meanwhile, the charger is being standby status.
- Insert one battery into the charging slot, being careful to insert it with the correct polarity. When the charge indicator turns red, the charger begins charging the battery.
- When the battery is fully charged, the MC1 terminates charging, and the charging indicator turns green. It is recommended that you remove batteries from the charger once charging has completed.

### ■ Notice:

- The MC1 is for use only with 10440/ 14500/ 14650/ 16340/ 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, and can damage the batteries and charger.
- Keep the MC1 away from water and excessive dust.
- Do not disassemble the MC1; Damage may result.
- Do not use the MC1 once it is broken.
- Net weight: 20g
- Size: L92\*W22\*H26mm

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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.
- To top up a battery whose voltage is 4.1V or higher, insert the battery into the charger before plugging in the AC power cable. If you take the opposite operation, MC1 will probably not charge the battery.
- It is recommended that you remove batteries from the charger once charging has completed. If batteries are left in the charger after charging completes, the charger will automatically restart the charge cycle when the voltage drops below 4.1V.
- The MC1 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.
- If this manual description has differences with the official website, please prevail 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 and Anti-fake inquiry:

- Welcome to visit our company website to get more information.  
[www.xtarlight.com](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 feed backs are essential to our progress.



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