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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.

XTAR brand came into conception and determined to make high quality chargers, flashlights and batteries in 2006. In 2007, Shenzhen Winner Bros Import & Export Co., Ltd was established in Shenzhen, China. Two years later, Hong Kong XTAR Co., Ltd was established for the international market. With the concept and the determination of making China's Got Quality and 8 years' hard working, we finally have made our concept a reality. A reality that XTAR is known worldwide and distributors are all over the world. With the rapid development of XTAR, our own factory was set up and in the meantime, Shenzhen XTAR Electronics Co., Ltd was found in 2014.

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XTAR products obtain more than 30 patents and are selling well in 120 countries including USA, Germany, Australia, Japan, Korea, Russia and so on. The high quality of XTAR products make it possible not only to pass CE, ROHS and other major certificates, but also certificates like UL, PSE, SAA, MEPS, C-Tick etc.

XTAR team dedicate themselves to creative design, high quality control and wholehearted after-sale service to make it an enjoyment when people are using XTAR products or talking with XTAR team.

XTAR always believe in China's Got Quality.

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INTRODUCTION

XTAR VP4 is a four-channel independent lithium ion battery LCD charger. The charging current can be recognized by battery inserted in different channel position automatically, users can also manually choose the current by the current button. The real time display, precision of battery cutting-off voltage, battery power indicators and optional current, etc., you know the battery charging status all the time.

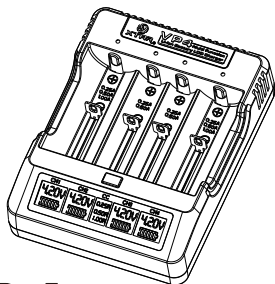
FEATURES

- Apply to four pcs 10440/16340/14500/14650/17670/18350/18490/18500/18650/18700 or two pcs 22650/25500/26650 3.6/3.7V lithium ion batteries
- Compatible with IMR lithium battery
- Each channel is independent
- Three-stage charge algorithm(TC-CC-CV)
- Three charge current options (0.25A, 0.5A, and 1.0A)

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VP4

INTELLIGENT CHARGER MANUAL

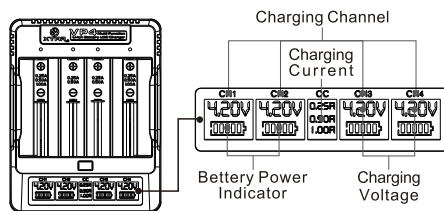
- Soft-start function, to avoid damage from large charge current while charging.
- Automatically cut off when the battery is charged fully
- Precision cut-off voltage at 4.2V
- Compatible with small capacity battery
- Over heat protection
- LCD displays each battery real time statuses
- Use high power intelligent step-down DC - DC circuit, greatly reduce the energy loss;
- Built-in reverse-polarity and short-circuit protection circuit
- Use fireproof material for the shell
- 0V activation function can wake up the over-discharged sleeping batteries
- 120°angle high definition VA screen to display the charging current ,voltage and power indicator , you can see the charging status from any angle of view.
- Certified by CE, RoHS

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SPECIFICATIONS

Input Power		DC 12.0V 1.0A
Output Currents	0.25 A Constant Current	250mA x 4
	0.5 A Constant Current	500mA x 4
	1.0 A Constant Current	1000mA x 2
Cut-off Voltage(Output Voltage)		4.2 V
Operating Temperature		0-40 ℃
Dimensions		147 * 115 * 35 (mm)

■ VP4 Charger LCD Display and LED Indicators:



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USAGE

- Plug the DC cord of the wall adaptor into the VP4 charger, and plug the other end of the wall adaptor into a socket. The charger performs a self-check, the LCD displays all contents, the charge current indicators turn blue, and the charging status indicators are all red on for 2 seconds. Then the charging status indicators are green on, and 0.5A(default charge current) gear display, at this time the charger is entering into standby mode.
- Insert the rechargeable 3.6/3.7V(Nominal voltage) li-ion batteries into charging channels, ensure the positive and negative ends correspond with the positive(+) and negative(-) symbols on the charger.
- As long as there is a battery in channel 2 or channel 3 or two batteries in these two channels, no matter how many batteries in channel 1 and channel 4, the charging current will default as 0.5A. You can press the current button to change the charging current to 0.25A or switch it back to 0.5A again.

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- The charging current would be the max 1.0A automatically only when the channel 2 and channel 3 are empty.
- You can press the current button to change the current from 1.0A to 0.25A or 0.5A or back to 1.0A.
- Please read the charging current settings parameter below.

■ Battery Charging Current Configure Settings:

Default Setting	CH1	CH2	CH3	CH4	Manual Adjust current
0.5A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.5A ↓ 0.25A ↓ 0.5A (Note: only 0.5A or 0.25A can be selected)
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.0A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.0A—0.5A—0.25A—1.0A ↓ (Note: You can select 1.0A or 0.5A or 0.25A)

Note: ■ Slot with battery;
□ Slot without battery.

- VP4 charger features four charging channels, each channel is independent and no influence to any channel while charging and monitoring batteries.

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- Choose the most suitable charge current for your batteries:

- 0.25A Gear: 10440-18700 li-ion batteries.
- 0.50A Gear: 18650-26650 li-ion batteries with capacity >= 2500mAh.
- 1.0A Gear: Li-ion batteries with capacity >= 2000mAh, the 1.0A is the large charging current for fast charging mode.

NOTICE

- The VP4 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.
- The VP4 is used only for 3.6V/3.7V(Nominal voltage) rechargeable li-ion battery, attempting to charge other battery types may result in battery explosion, leaking or other damages.

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- The VP4 features battery charging current configure settings, please note while there are no battery in CH2 and CH3, only CH1 and CH4 can get 1.0A charging current. As long as there is any battery in CH2 or CH3, the charging current will be 0.5A for the four channels. The current button can only be adjusted the charging current to a lower one(s).

- To lengthen the over-discharged battery lifespan, 0.25A charging current is strongly recommended.
- Because of different battery types, capacities and over-discharge conditions, the battery revive time may vary. Heavily over-discharge batteries may not be able to be waken up.
- Keep the VP4 away from water and excessive dust.
- Children should be supervised by an adult when using the charger.
- Do not disassemble or modify the charger.

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- While in charging mode, the LCD displays battery's voltage, charging current and battery power indicator. The charging state and battery power indication:



When the battery voltage reach to the next stage, one more bar will be added to the battery level icon. No battery indicator display in the corresponding channel when the charger is in one of the following conditions:

- No battery is inserted in the channel;
- Short circuit;
- Battery voltage < 1.0V;
- Battery is reversed or poorly connected.

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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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■ Charging LED indicators:

Status		LED Indication
Charger being Self-check		Red (2 seconds)
Charger being Standby		Green
Battery being activated	≈1.0V-2.0V	Red flashes
	<1.0V	Green
Being charged		Red
Full charged		Green

- When the batteries are fully charged, the charger will stop charging, the voltage of the battery will cut off at 4.2V. The corresponding charging status indicators are green on, and all five battery indicator bars will stop blinking, you can remove the batteries and pull out the plug.

TIPS

- While in charging mode, press the current button and hold your finger on it for 1.5 seconds, the LCD screen will be switched off.

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WEBSITE & ANTI-FAKE INQUIRY

- Welcome to visit our company website to get more information.
<http://www.xtarlight.com>
- Flow us on Facebook:
www.facebook.com/ShenzhenXTAR
- 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.

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