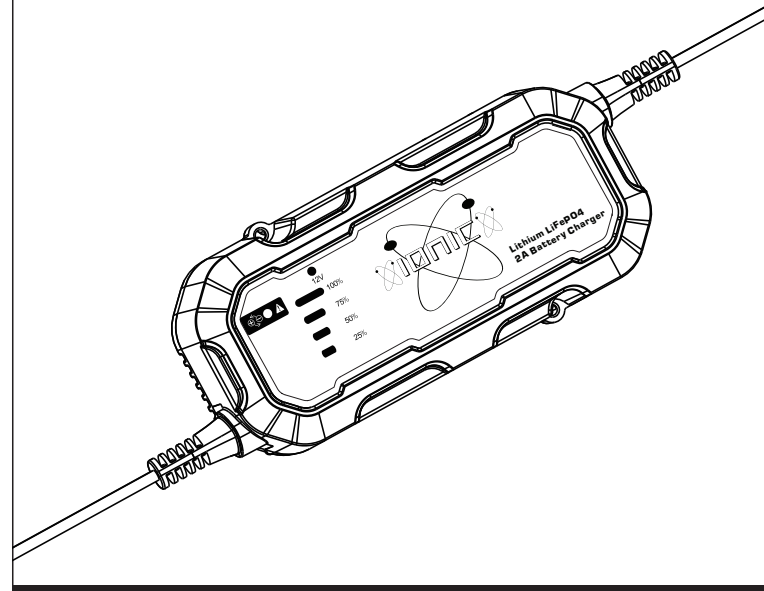


BATTERY CHARGER

IC-12V2-CHP

User manual



Version 1.0

Before using this product, please read this instruction manual carefully. Be sure to keep this book in a safe place so that you can refer to it at any time in the future. Please use it correctly on the basis of a full understanding of the content.



Important safety instructions

Please keep this manual for future reference. This manual contains all the safety, installation and operation instructions for the battery charger (hereinafter referred to as the "charger").

- Check whether the power supply voltage is consistent with the voltage indicated on the nameplate on the charger.
- Make sure not to cause any short circuit when connecting the charger.
- After use, when cleaning or maintaining the charger, the connecting cable must be disconnected.
- Children cannot be aware of the dangers of electrical equipment, please place the charger in a place where children cannot reach.
- Do not attempt to disassemble or modify any parts that are not described in this manual. Disassembling or modifying this product may cause serious accidents. Internal inspection, modification or repair should be handled by the distributor of this product or the qualified service personnel designated by the manufacturer.
- Do not touch exposed conductors on the DC side and AC side without protective measures.
- Put the charger in a dry place, do not put the charger in corrosive, salty, flammable and explosive gas, rain or humid environment.
- Ensure good ventilation. Always keep a ventilation opening of at least 5 cm around the charger. During use, make sure that all high-temperature objects are kept away from the charger.

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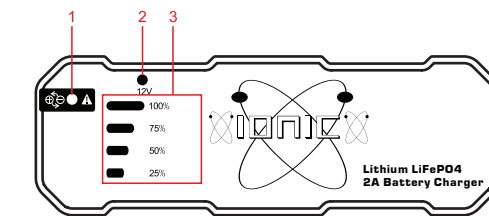
Instructions for use

1.1 Operation Steps

- 1 Insert the charger input plug into the rated working power socket, and the standby indicator will light up at this time;
- 2 Connect the red clip of the charger (marked with "+") to the positive terminal of the battery;
- 3 Connect the black clip of the charger (marked with "-") to the negative terminal of the battery;
- 4 the charger automatically enters the charging mode
- 5 After the charging is over, first unplug the plug, disconnect the mains, and then remove the clip from the battery.

1.2 Part name and function

IC-12V2-CHP LED Display function



- 1 The fault indicator light can display the type of error if an abnormal condition occurs during use.
- 2 12V Battery indicator
- 3 LED display: can display the battery level during the charging process

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1.3 Fault display

Protection type	Display content	Failure analysis	Deal plan
Battery short circuit	The fault indicator flashes quickly	Battery connection or battery short circuit	Troubleshoot short-circuit faults at the connection or replace the battery
Battery reverse connection	Fault indicator light is on	The charger clip is connected to the battery's positive and negative poles	Replace the connection clip and reconnect the positive and negative poles of the battery
Over temperature protection	All LED indicators are off	1. The ambient temperature of the charger is too high 2. The temperature inside the machine is too high	1. Put it into the standard charging environment according to the charger manual 2. Move blocked items
Dead battery	12V and fault indicator light are on	The internal resistance of the battery becomes large or open circuit	Replace with new battery

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Product Function

2.1 Reverse connection protection

When the charger is in the charging state, the output clip is reversely connected, and the charger will be protected against reverse connection at this time. During this process, it will not have any adverse effects on the performance of the charger.

2.2 Short circuit protection

When the charger is in the charging state, if the output clip is short-circuited, the charger will short-circuit protection. During this process, it will not have any adverse effects on the performance of the charger.

2.3 Over temperature protection

When the internal temperature of the product reaches the temperature protection point, it will enter the protection state and the output will be turned off. The internal temperature of the charger is naturally reduced, and the output should be restored by itself before cooling to the ambient temperature.

2.4 Dead battery detection

After the charger is connected to the battery, it detects that the charging voltage rises rapidly, and there is no charging current at the same time, or there is no charging current for long-term charging. At this time, the charger judges that the battery is a dead battery, and the dead battery indicator lights up at the same time.

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Product Parameter

Model	IC-12V2-CHP
Input voltage	100-240VAC 50-60Hz
Output voltage	DC12V
Charging current	DC12V/2A
Charging mode	Three-stage charging of lithium battery
Battery Type	Lithium LiFePO4
Efficient	90%(MAX)
Working temperature	0°C-40°C
Cooling method	Natural cooling
Product Size	154*72*41mm
Product Weight	280g
Packing size and quantity	455*400*350mm 40pcs/ctn

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