

43.8V 18A

LiFePO4 Battery Charger



PRODUCT MANUAL

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service@litime.com



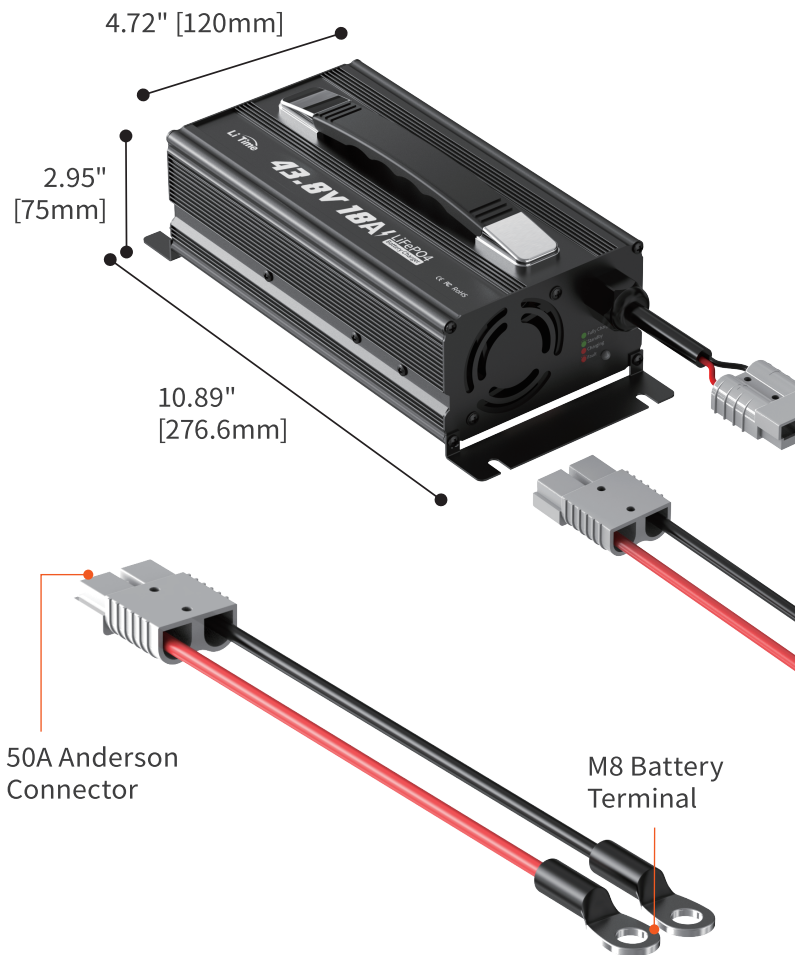
[technicalsupport@litime.com](https://www.whatsapp.com/channel/00251331111111111111)



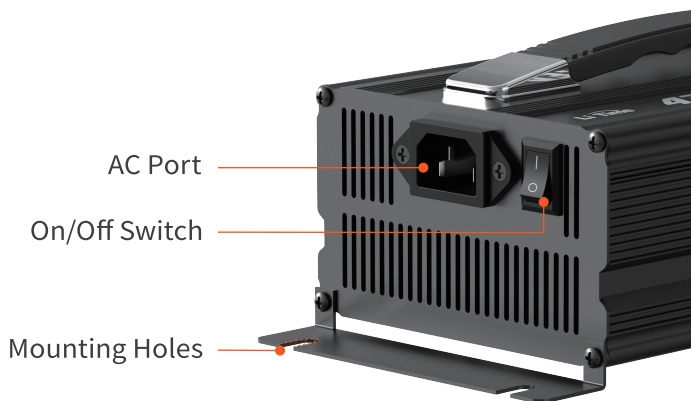
Shenzhen Litime Technology Co., Ltd

PRODUCT OVERVIEW

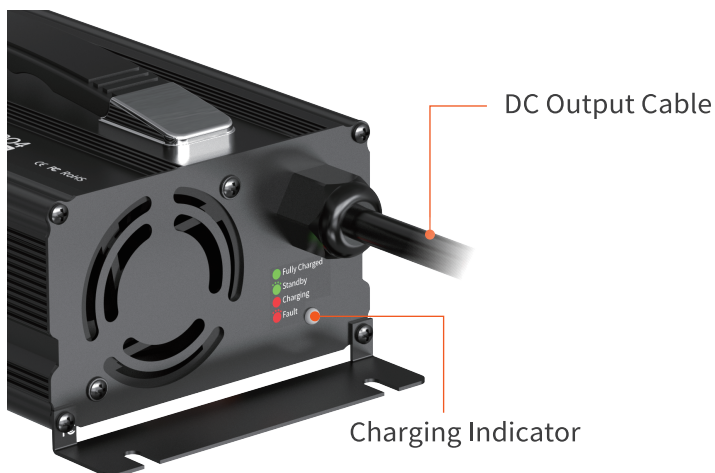
43.8V 18A LIFEPO4 BATTERY CHARGER



AC SIDE



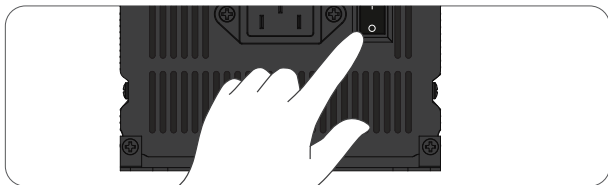
DC SIDE



HOW TO CONNECT

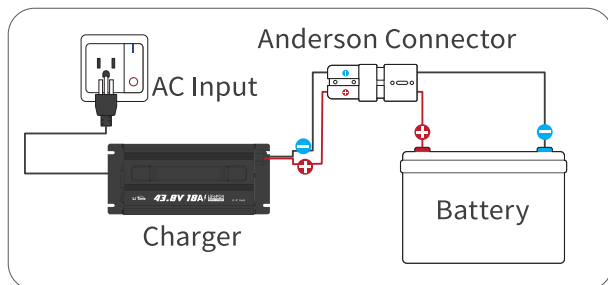
Step
1

Make sure the switch is in the off position.



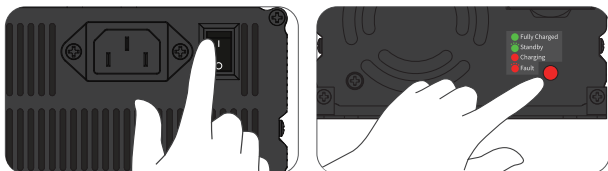
Step
2

Connect the DC output cable to the battery, **+** to **+**, **-** to **-**, then connect the Anderson connector. Connect the AC input cable to the AC port and to the grid power.



Step
3

Turn on the switch. The battery is charging when the LED indicator is **always on red**.



Step
4

Turn off the switch after charging is complete.

LED INDICATOR

LED Status	Charger Status
 Always on Green	Battery is fully charged.
 Flashes Green	Charger is on standby.
 Always on Red	Battery is charging.
 Flashes Red	Charger fault or under protection (over temperature protection, output short-circuit protection, reverse polarity connection protection, output over-voltage/under-voltage protection)

SPECIFICATIONS

Input Voltage	100V to 240VAC; 50Hz to 60Hz
Max Input Current	10A
Output Voltage	43.8VDC
Output Current	18A
Temperature Range	Operating: -25°C to 45°C / -13°F to 113°F Storage: -40°C to 80°C / -40°F to 176°F
Dimensions	L10.89×W4.72×H2.95 inch L276.6×W120×H75 mm
Net Weight	2.3kg / 5.07lbs

Li Time

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CHARGING MODES

Pre-Charge Stage (T1)

When the battery voltage is lower than its normal standard and cannot withstand high-current charging, the charger will charge it at a limited current.

This charging mode will be able to activate and repair the battery and extend the battery's lifetime. When the output voltage reaches the normal value, the charger will automatically switch to the next stage.

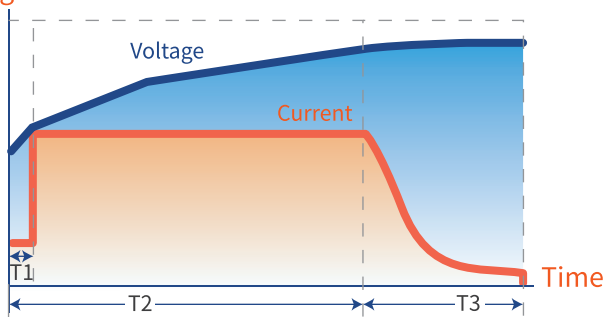
Constant Current Charging Stage (T2)

When the battery is in the main charging time, the charger will charge the battery with a **18A** current. When the battery voltage rises above the set value, the charger will automatically switch to the next stage.

Constant Voltage Charging Stage (T3)

The charger switches to the Constant Voltage Charging Stage and the charging current gradually decreases. When the charging voltage or current reaches the set value, the charger automatically turns off the output voltage and the battery charging is completed.

Voltage & Current



* The charging curves are as above

MAINTENANCE & USE PRECAUTIONS

1. Check the battery specifications carefully before charging to ensure that the LiFePO₄ battery matches the charger technical data.
2. Make sure the charger is properly connected to the battery (⊕ to ⊕, ⊖ to ⊖) to avoid a short circuit.
3. The input/output connectors must be firmly connected during charging.
4. Unplug the input/output cable of the charger immediately once the charger or battery is found to be abnormal or damaged during charging.
5. **Do not** use other input cables or extend the output connection cable personally, or please contact LiTime at service@litime.com to get some advice if you need it.
6. **Do not** open, dismantle, or modify the charger.
7. Never use it in a thunderstorm.
8. Please keep the charger and battery away from water, heat sources, sparks, flames, flammable gas, and hazardous chemicals.
9. **Do not** place rods or other metal objects in vents or other openings.
10. Place the charge in a well-ventilated area with sufficient heat dissipation to prevent overheating and damage.
11. **Do not** puncture, drop, crush, burn, penetrate, shake, strike, or throw it with force.

TROUBLESHOOTING

If the charger does not work properly, the following methods can help you solve the general problem quickly. If you still cannot rule out the possibility of failure, please contact LiTime at service@litime.com.

Problem	Possible Cause	Solution
Charging indicator flashes red when charging.	Under Over Temperature Protection	Cool down the charger to normal temperature.
Charging indicator flashes red after connected.	Under Reverse Polarity Connection Protection / Output Short-Circuit Protection	Connect the charger to the battery correctly,  to  ,  to  .
	Under Output Over-Voltage/Under-Voltage Protection	Make sure the connected battery is a 38.4V LiFePO4 battery.
The charger does not charge and the LED is off after being connected to grid power.	AC port is not tightly or correctly connected.	Reconnect the AC input cable to the AC input port tightly.
	Charger Internal Damage	Contact us at service@litime.com for further solutions.

REGISTER WARRANTY



Register Warranty

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If you have any questions or need any help,
please contact us at service@litime.com.

43.8V 18A



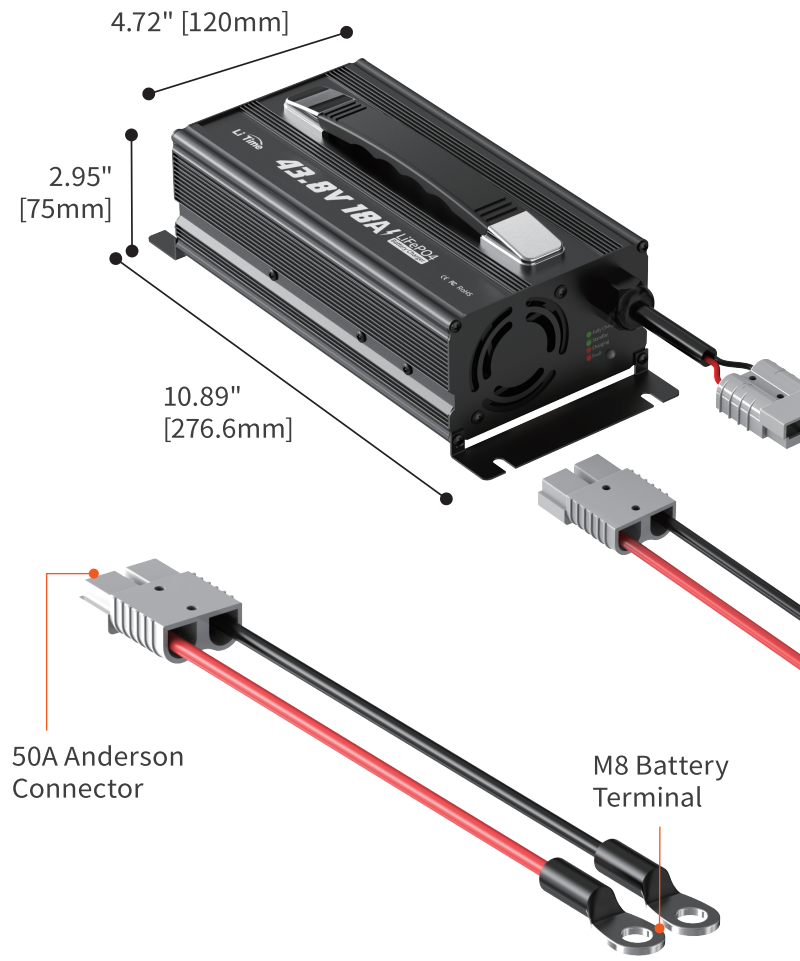
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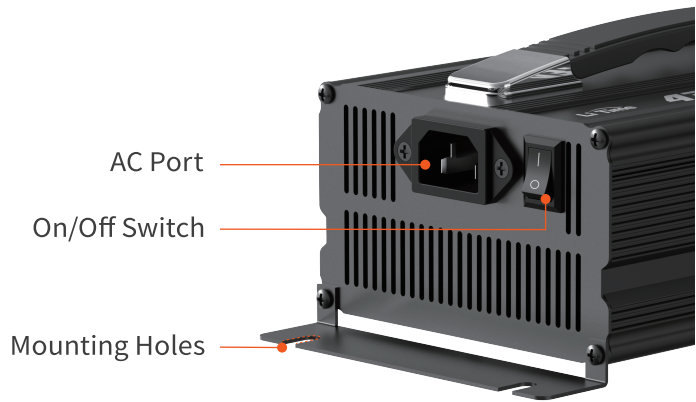
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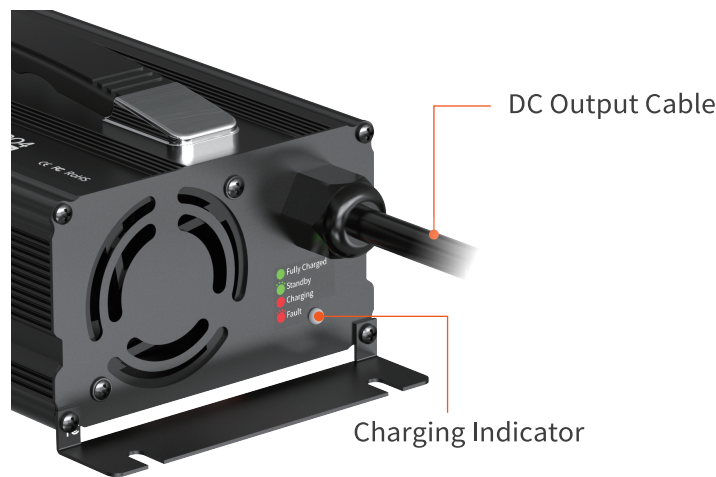
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AC SIDE



DC SIDE



HOW TO CONNECT

- Step 1 Make sure the switch is in the off position.
- Step 2 Connect the DC output cable to the battery, + to +, - to -, then connect the Anderson connector. Connect the AC input cable to the AC port and to the grid power.
- Step 3 Turn on the switch. The battery is charging when the LED indicator is **always on red**.
- Step 4 Turn off the switch after charging is complete.

LED INDICATOR

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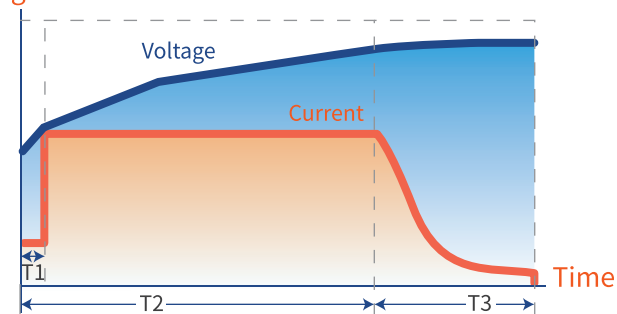
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