14.6V 40A

LiFePO4 Battery Charger

PRODUCT MANUAL

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PRODUCT OVERVIEW

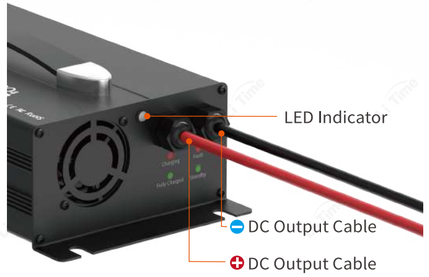
14.6V 40A LIFEPO4 BATTERY CHARGER



AC SIDE



DC SIDE

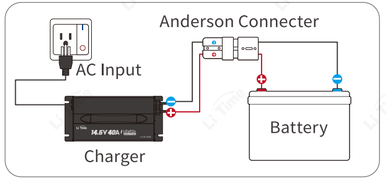


HOW TO CONNECT

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.

SPECIFICATIONS

Input Voltage	100V to 240V AC; 50Hz to 60Hz
Max Input Current	10A
Output Voltage	14.6V DC
Output Current	40A
Temperature Range	Operating: -20°C to 40°C / -4°F to 104°F
	Storage: -40°C to 70°C / -40°F to 158°F
Dimensions	With Handle: L11.54*W5.31*H3.29 inch L293*W135*H83.6 mm
	Without Handle: L11.54*W5.31*H2.78 inch L293*W135*H70.5 mm
Net Weight	Appr. 2.8kg / 6.17lbs

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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.

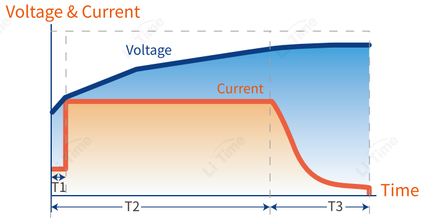
This charging mode will be able to activate and repair the battery and extend the battery's lifetime. When the output voltage reaches the normal value, the charger will automatically switch to the next stage.

Constant Current Charging Stage (T2)

When the battery is in the main charging time, the charger will charge the battery with a 40A 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.



* 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 charger 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.

LED INDICATOR

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

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
LED flashes red when charging.	Under Over Temperature Protection	Cool down the charger to normal temperature, and the charger will resume charging.
LED flashes red after connected.	Under Reverse Polarity Connection Protection / Output Short-Circuit Protection / Output Over-Current Protection	Reconnect the charger to the battery correctly, ⊕ to ⊕, ⊖ to ⊖, then restart the charger.
	Under Output Over-Voltage Protection / Output Under Voltage Protection	Make sure the connected battery is a 12.8V LiFePO4 battery.
LED flashes green after being connected to the battery.	Under Output Short-Circuit Protection	Connect the charger to the battery correctly, ⊕ to ⊕, ⊖ to ⊖.
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

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