

58.4V 18A

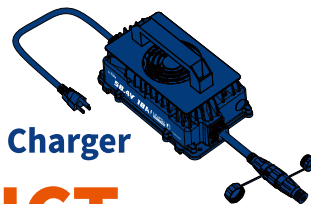


LiFePO4 Battery Charger

PRODUCT MANUAL

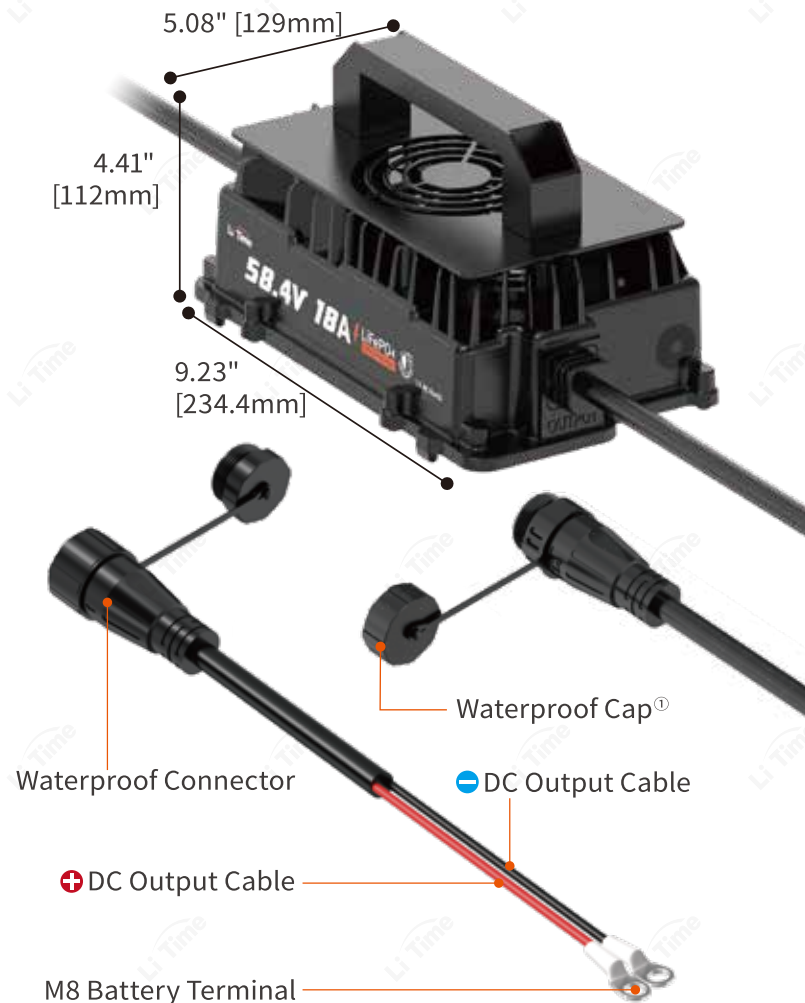
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Li Time



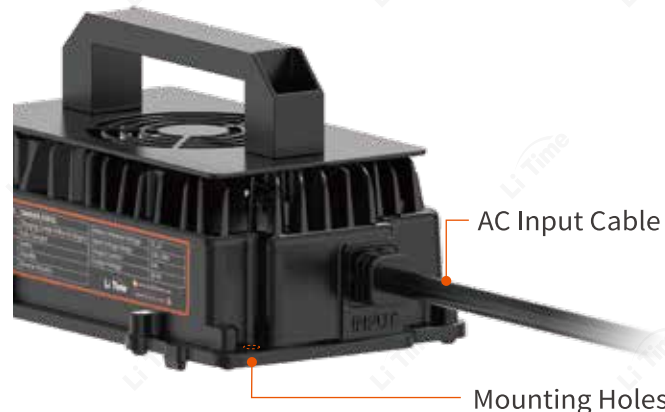
PRODUCT OVERVIEW

LITIME 58.4V 18A LIFEPO4 BATTERY CHARGER

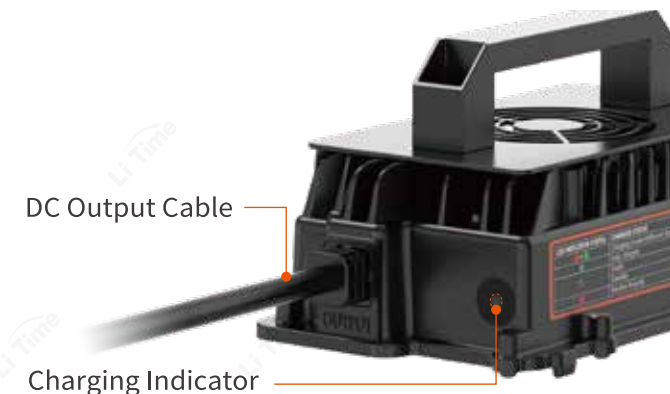


① When the waterproof connector is disconnected, cover it with the waterproof cap to maintain IP65 protection and prevent water or dust damage.

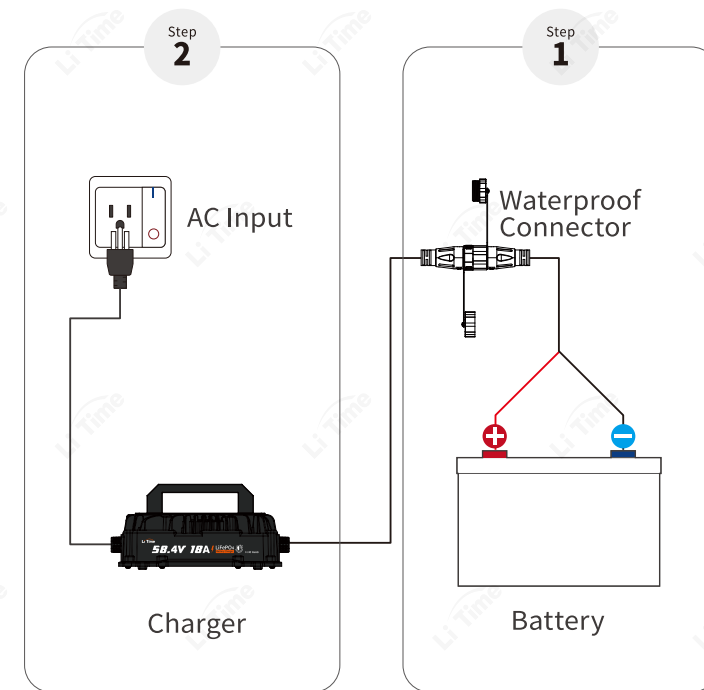
AC SIDE



DC SIDE



HOW TO CONNECT



- Step 1** Connect the DC output cable to the battery, **+** to **+**, **-** to **-**.
- Step 2** Connect the waterproof connector and then connect the AC input cable to the grid power. The battery is charging when the indicator is **flashing red or green**.
- Step 3** Disconnect the waterproof connector or the grid power after charging is complete.

SPECIFICATIONS

Input Voltage	100V to 240V AC; 47Hz to 63Hz
Max. Input Current	12A
Output Voltage	58.4V DC
Output Current	18A
Protection Class	IP65
Temperature Range	Operating: -20°C to 45°C / -4°F to 113°F Storage: -40°C to 70°C / -40°F to 158°F
Dimensions	L9.23×W5.08×H4.41 inch L234.4×W129×H112 mm
Net Weight	Appr. 2.4kg / 5.29lbs

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LED INDICATOR

LED Status		Charge Status
Flashes Red/Green ^① or		Battery is charging. (Under Different Stages)
Always on Green		Battery is fully charged.
Rapidly Flashes Red		Under Reverse Polarity Protection
Flashes Red-green		Standby (Not Charging)
	The indicator flashes red-green.	Under Output Under-Voltage Protection
		Under Output Short-Circuit Protection
	The indicator sequentially flashes in a red-green-red-off-off-off pattern, then repeats the cycle.	Under Output Over-Voltage Protection
	The indicator sequentially flashes in a red-green-red-green-red-off pattern, then repeats the cycle.	Input Voltage Fault
	The indicator sequentially flashes in a green-red-off-off-off-off pattern, then repeats the cycle.	Under Over Temperature Protection

① **Note:**

Fast Red Flashing: Pre-Charge Stage

Slow Red Flashing: Constant Current Charging Stage

Slow Green Flashing: Constant Voltage Charging Stage

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.

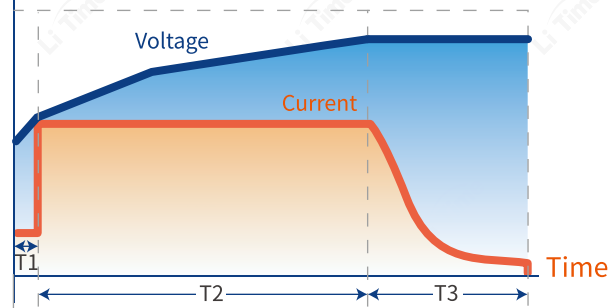
Constant Current Charging Stage (T2)

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 follows.

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 ($\oplus$ to $\oplus$, $\ominus$ to $\ominus$) 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.

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	LED Status	Possible Cause	Solution
Charging indicator rapidly flashes red after connected.		Under Reverse Polarity Protection	Connect the charger to the battery correctly, $\oplus$ to $\oplus$, $\ominus$ to $\ominus$.
Charging indicator flashes red-green when charging.		Under Over Temperature Protection	Cool down the charger to normal temperature.
Charging indicator flashes red-green after connected.		Under Output Short-Circuit Protection	Connect the charger to the battery correctly, $\oplus$ to $\oplus$, $\ominus$ to $\ominus$.
		Under Output Under-voltage Protection	The battery may be damaged or fail to be activated, contact the battery manufacturer for further assistance.
		Under Output Over-voltage Protection	Make sure the connected battery is a 51.2V LiFePO4 battery.
		Input Voltage Fault	Make sure the input voltage is within 100 to 240V AC.
The charger does not charge and the LED is off after being connected to grid power.		Poor connection	Make sure all connections are correct and tight.
		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.