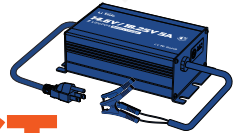


14.6V/18.25V 5A



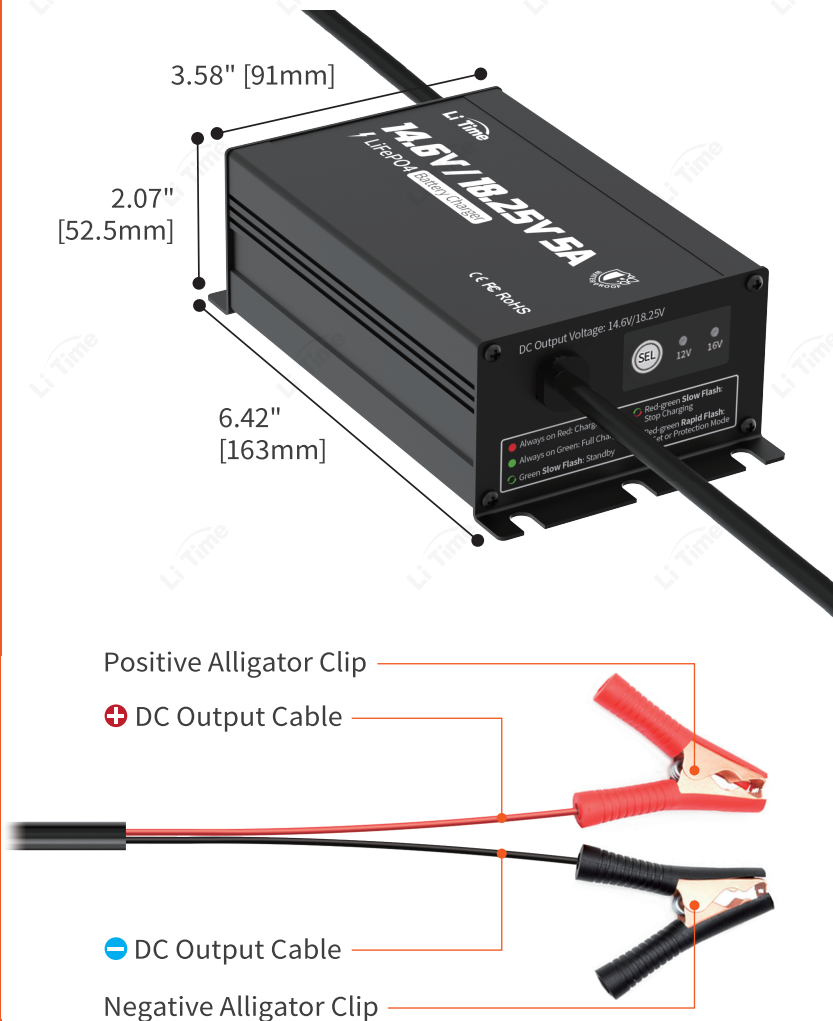
PRODUCT MANUAL

LiFePO4 Battery Charger

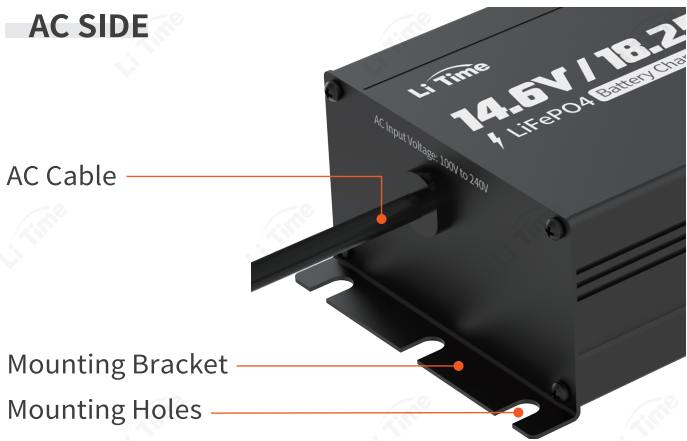


PRODUCT OVERVIEW

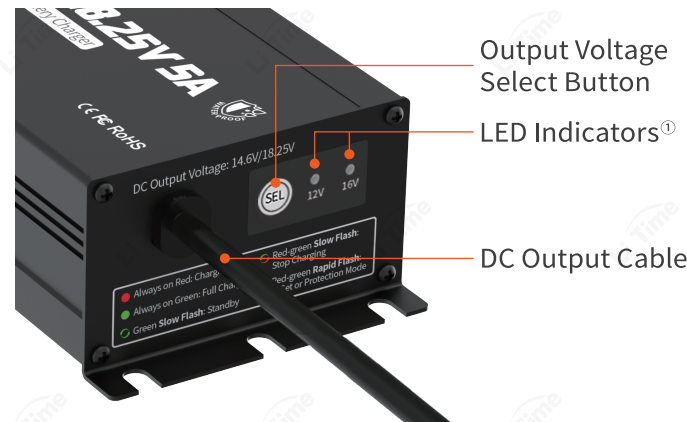
14.6V/18.25V 5A BATTERY CHARGER



AC SIDE

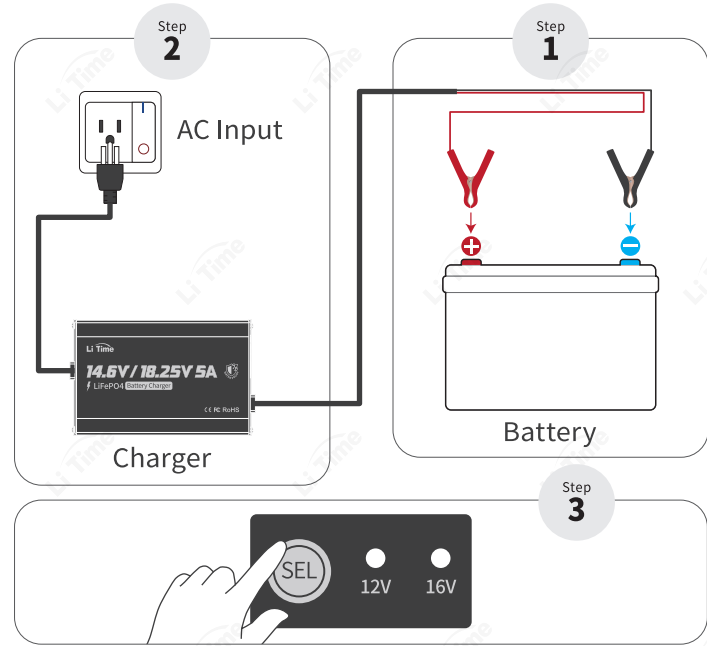


DC SIDE



① The 12V/16V LED indicator will light up based on the selected output voltage (14.6V/18.25V).

HOW TO CONNECT



- Step 1: Connect the alligator clips of the charger to the battery, + to +, - to -.
- Step 2: Plug the AC plug to the grid power.
- Step 3: Select the suitable output voltage by short pressing the button, then press and hold it or wait for 60 seconds to save the voltage.
- Step 4: After charging is complete, disconnect the alligator clips^① (remove the - alligator clip first, then the + alligator clip) or disconnect the grid power.

① Do not operate the alligator clips during the charging process. Unplug the AC plug from the power grid to stop charging if needed.

BUTTON OPERATION

Button	Charging Status	Operation	Function
SEL	The charger is on set mode. (The LED is in red-green rapid flash.)	Short Press	Select the Output Voltage (14.6V or 18.25V)
		Press and Hold 3 Seconds (or wait for 60 seconds)	Save the Voltage and Enter Charging Mode
	The battery is in charging. (The LED is always on red.)	Short Press	/
		Press and Hold 1 st Time	Manually Stop Charging
SEL	The battery is in charging. (The LED is always on red.)	Press and Hold 2 nd Time	Select the Output Voltage (14.6V or 18.25V)
		Press and Hold 3 rd Time	Save the Voltage and Resume Charging

LED INDICATOR

LED Status	Charge Status
 Always on Red	Battery is charging.
 Always on Green	Battery is fully charged.
 Green Slow Flash	Charger is on standby.
 Red-green Slow Flash	Charging is stopped manually.
 Red-green Rapid Flash	The charger is in Set or Protection Mode ^① .

①The charger stops charging in protection status and resumes after exiting the protection status.

SPECIFICATIONS

Input Voltage (AC)	100V to 240V; 47Hz to 63Hz
Input Current (AC)	1A/115V, 0.5A/230V
Output Voltage (DC)	14.6V/18.25V
Output Current	5A
Max. Output Power	91.25W
Protection Class	IP65
Relative Humidity	5% to 95%
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	L6.42×W3.58×H2.07 inch L163×W91×H52.5 mm
Net Weight	Appr. 0.5kg / 1.10lbs

CHARGING MODES

I 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.

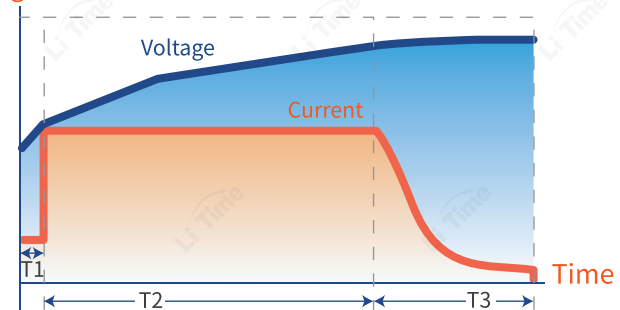
I Constant Current Charging Stage (T2)

When the battery is in the main charging time, the charger will charge the battery with a **5A** current. When the battery voltage rises above the set value, the charger will automatically switch to the next stage.

I Constant Voltage Charging Stage (T3)

The charger switches to the Constant Voltage Charging Stage and the charging current gradually decreases. When the 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 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	Possible Cause	Optional Solutions
The charger is not charging the battery after being connected to grid power.	Poor connection with battery	Make sure connections are correct and tight.
The battery is not fully charged after a long time charging.	Batteries are aged or damaged	Replace a new battery.
Enter set mode after automatic restart, red and green lights flash rapidly alternately.	Improper output voltage selection	Set the correct output voltage(14.6V/18.25V).
	Over temperature	Disconnect the battery to the charger, and cool the charger to normal temperature.
	Over current	Restart the charger.
	Over voltage / Under voltage	①Make sure the connected battery is a 12.8V/16V LiFePO ₄ battery; ②Set the correct output voltage (14.6V/18.25V).
	Reverse connection	Connect the battery with the charger correctly(⊕ to ⊕, ⊖ to ⊖) and retry.
	Short circuit	Ensure that the positive alligator clip does not touch the negative alligator clip.