29.2V 40A

PRODUCT MANUAL

LiFePO4 Battery Charger

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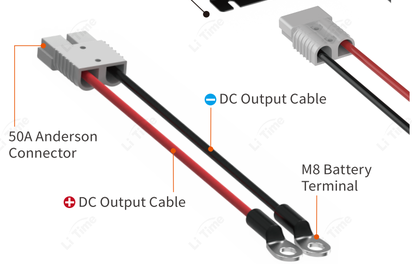
PRODUCT OVERVIEW

29.2V 40A LIFEPO4 BATTERY CHARGER



Note: Mounting brackets can be installed as required.

TOP SIDE

AC SIDE

DC SIDE

LED INDICATORS

LED Status		Charger Status
	Always on Red	Charging
	Always on Green	Fully charged
	Flashes Red	Under over-current protection
	Flashes Green	Standby
Flashes Red-green	The indicator flashes red and green at the same time.	Under output short-circuit protection
	The indicator flashes red-green.	Under reverse polarity connection protection
	The indicator sequentially flashes in a red-red-green pattern, then repeats the cycle.	Under over temperature protection
	The indicator sequentially flashes in a red-red-red-red-green pattern, then repeats the cycle.	Under output over-voltage / under-voltage protection
	The indicator sequentially flashes in a red-red-red-red-red-green pattern, then repeats the cycle.	Under charging timeout protection

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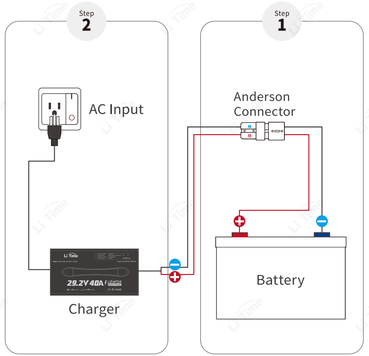
HOW TO CONNECT



Step 1 Connect the DC output cable to the battery, ⊕ to ⊕, ⊖ to ⊖, then connect the Anderson connector.

Step 2 Connect the AC input cable to the grid power.

Step 3 Disconnect the Anderson connector or the grid power after charging is complete.

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 normal value, the charger will automatically switch to the next stage.

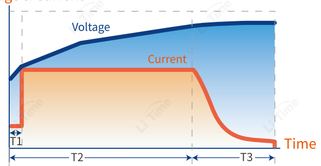
Constant Current Charging Stage (T2)

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.

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 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.

SPECIFICATIONS

Input Voltage	100 to 240V ; 50 to 60Hz
Max. Input Current	13A
Output Voltage	29.2V
Output Current	40A
Relative Humidity	5% to 90%
Temperature Range	Operating: -20°C to 40°C / -4°F to 104°F Storage: -20°C to 85°C / -4°F to 185°F
Dimensions	L9.49×W5.03×H2.48 inch L241×W128×H63 mm
Net Weight	Appr. 2.4kg / 5.29lbs

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.

LED Status / Problem	Possible Cause	Optional Solutions
🔴	Under over-current protection	① Disconnect the connection of the battery and charger, then reconnect them correctly by ⊕ to ⊕, ⊖ to ⊖. ② Unplug the charger AC plug from the grid power, then re-plug it.
🔴🟢	Under output short-circuit protection	Disconnect the connection of the battery and charger, then reconnect them correctly by ⊕ to ⊕, ⊖ to ⊖.
🟢	Under reverse polarity connection protection	
🟢	Under output over-voltage / under-voltage protection	Make sure the connected battery is a 25.6V LiFePO4 battery first. ①Disconnect the connection of the battery and charger, then reconnect them correctly by ⊕ to ⊕, ⊖ to ⊖. ②Unplug the charger AC plug from the grid power, then re-plug it.
🟢	Under over temperature protection	Cool down the charger to normal temperature, and the battery will resume charging.
🟢	Under charging timeout protection	Unplug the charger AC plug from the grid power, then re-plug it.
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, and make sure the grid power is available.
	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.