

Indicator State

Standby/No load	● Green on
Charging	●/● Green flashing
Fully charged	● Green on
Abnormal	●/● Red light fast flashing

Common Faults and Solutions

Abnormal faults	Solutions
●● Red light fast flashing	Output short-circuit, check the wiring of the output terminals, and eliminate the short circuit.
	The battery is not connected or reversed, check the battery connection, connect the battery correctly.
	Protection Status, need to unplug the power supply and output connector, and restart it after 5 minutes.

Working Environment

NO.	Item	Technical Target
1	Working temperature	14°F~+113°F
2	Storage temperature	-40°F~+158°F
3	Relative humidity	5%~95%
4	Heat dissipation method	Forced Cooling
5	Waterproof grade	IP67

SUNRICH
— ENERGY —



LiFePO₄ Battery Charger User Manual



SUNRICH ENERGY
Making solar power accessible and
affordable across America.

Model: SE-C4815

Thank you very much for choosing SUNRICH ENERGY LiFePO₄ battery charger!
In order to help you use, store and maintain the LiFePO₄ battery of our company,
please read and understand this user manual carefully before use.



Overview

This product adopts digital programming technology, with high-precision output voltage/current and good stability. The charging process is automatically controlled by the charging program to meet the requirements of temperature and vibration resistance. The charger automatically recognizes the battery status within 30 seconds after startup. If the recognition is successful, it enters the charging mode. If it fails, it enters the standby mode.

Product Features

- 1) Work efficiency reaches up to 91%
- 2) Powerful protection function
- 3) Wide operating temperature range
- 4) 100% full-load aging test
- 5) Automotive grade anti-vibration rating

Protection Functions

- 1) Output over-voltage protection
- 2) Output over-current protection
- 3) Output short-circuit protection
- 4) Output reverse protection
- 5) Charger over-temperature protection
- 6) Automatic shut-off output when fully charged
- 7) LiFePO₄ battery protection activation function

Cautions

- 1) This charger is only applicable for charging lithium batteries and is strictly prohibited from being used for lead-acid batteries.
- 2) Please ensure that your local mains power supply meets the input voltage of the charger before use.
- 3) Ensure that the positive and negative poles of the charger's DC output wires are correctly connected to the battery terminals: red → positive +, black → negative -.
- 4) Place the charger in a well-ventilated location to prevent it from overheating during charging.
- 5) Dust prevention should also be considered to avoid the accumulation of surface dust from affecting heat dissipation.

6) For safety and electromagnetic compatibility, the charger is equipped with a grounding wire by default.

7) Do not attempt to repair or maintain the charger on your own. Unauthorized opening of its cover may result in electric shock or other damages. When repair or maintenance is required, take it to a qualified service technician.

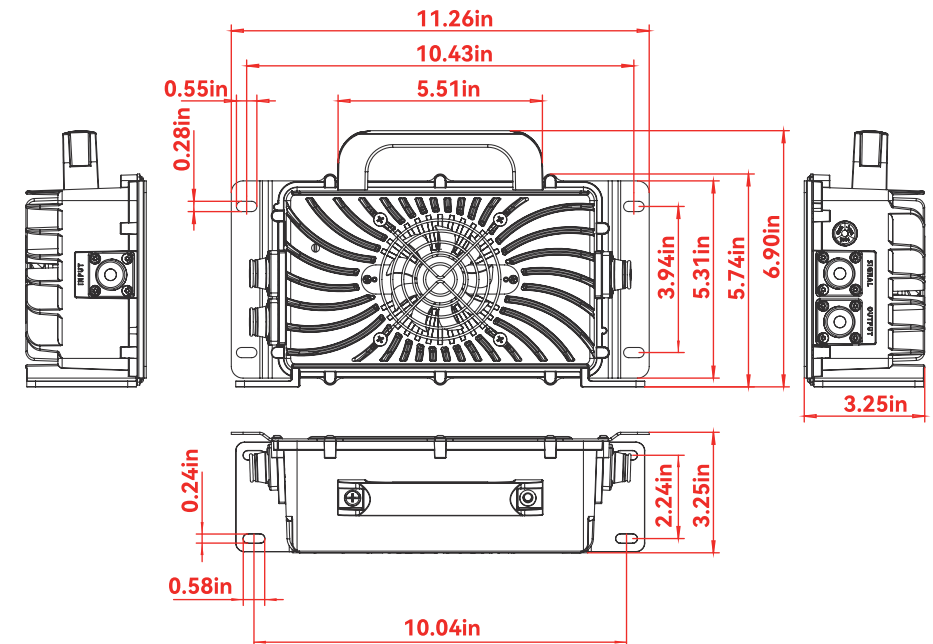
8) The battery generates hydrogen gas which may explode if ignited, so do not smoke, use open flames or create sparks near it. Ensure adequate ventilation during charging.

9) The charger mounting plate should be fixed horizontally and the radiator should be kept vertical. There should be a space of more than 3.9 inches between the radiator and the surrounding sides to ensure good heat radiation.

10) If you notice that the battery is abnormal or damaged during work, please disconnect the power supply immediately.

11) To avoid damage to the charger wire harness, please do not place objects on it or in a location where it can be stepped on. If the wire harness is damaged, please replace it immediately.

Product Size



Indicator State

Standby/No load	● Green on
Charging	●/● Green flashing
Fully charged	● Green on
Abnormal	●/● Red light fast flashing (Low battery voltage, Output short Circuit, Reverse Polarity)

Common Faults and Solutions

- 1) Error input voltage: Check if the input voltage conformed to the requirement or not.
- 2) Abnormal AC input: Check whether there is AC voltage and whether the input plug is loose.
- 3) Machine over heat: Check that the fan is running. Also pay attention to ventilation at the working place of charger, covering anything on the charger is not allowed.
- 4) Output short circuit: Check the wire line of output terminal to exclude short-circuit.
- 5) No battery or reverse connection: Check the battery connection, connect the battery correctly.
- 6) Battery voltage is too low: Make battery voltage up to the starting voltage of charger.

Working Environment

NO.	Item	Technical Target
1	Working temperature	14°F~+113°F
2	Storage temperature	-40°F~+158°F
3	Relative humidity	5%~95%
4	Heat dissipation method	Forced Cooling
5	Waterproof grade	IP67

SUNRICH
— ENERGY —



LiFePO₄ Battery Charger User Manual



SUNRICH ENERGY
Making solar power accessible and
affordable across America.

Model: SE-C4825

Thank you very much for choosing SUNRICH ENERGY LiFePO₄ battery charger!
In order to help you use, store and maintain the LiFePO₄ battery of our company,
please read and understand this user manual carefully before use.



Overview

This product adopts digital programming technology, with high-precision output voltage/current and good stability. The charging process is automatically controlled by the charging program to meet the requirements of temperature and vibration resistance. The charger automatically recognizes the battery status within 30 seconds after startup. If the recognition is successful, it enters the charging mode. If it fails, it enters the standby mode.

Product Features

- 1) Work efficiency reaches up to 91%
- 2) Powerful protection function
- 3) Wide operating temperature range
- 4) 100% full-load aging test
- 5) Automotive grade anti-vibration rating

Protection Functions

- 1) Output over-voltage protection
- 2) Output over-current protection
- 3) Output short-circuit protection
- 4) Output reverse protection
- 5) Charger over-temperature protection
- 6) Automatic shut-off output when fully charged
- 7) LiFePO₄ battery protection activation function

Cautions

- 1) This charger is only applicable for charging lithium batteries and is strictly prohibited from being used for lead-acid batteries.
- 2) Please ensure that your local mains power supply meets the input voltage of the charger before use.
- 3) Ensure that the positive and negative poles of the charger's DC output wires are correctly connected to the battery terminals: red → positive +, black → negative -.
- 4) Place the charger in a well-ventilated location to prevent it from overheating during charging.
- 5) Dust prevention should also be considered to avoid the accumulation of surface dust from affecting heat dissipation.

6) For safety and electromagnetic compatibility, the charger is equipped with a grounding wire by default.

7) Do not attempt to repair or maintain the charger on your own. Unauthorized opening of its cover may result in electric shock or other damages. When repair or maintenance is required, take it to a qualified service technician.

8) The battery generates hydrogen gas which may explode if ignited, so do not smoke, use open flames or create sparks near it. Ensure adequate ventilation during charging.

9) The charger mounting plate should be fixed horizontally and the radiator should be kept vertical. There should be a space of more than 3.9 inches between the radiator and the surrounding sides to ensure good heat radiation.

10) If you notice that the battery is abnormal or damaged during work, please disconnect the power supply immediately.

11) To avoid damage to the charger wire harness, please do not place objects on it or in a location where it can be stepped on. If the wire harness is damaged, please replace it immediately.

Product Size

