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> OGRPHY 48V 18A LiFePO4 Battery Charger Instruction Manual

## OGRPHY 48V 18A Lithium Battery Charger

# OGRPHY 48V 18A LiFePO4 Battery Charger Instruction Manual

Model: 48V 18A Lithium Battery Charger

Brand: OGRPHY

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your OGRPHY 48V 18A Lithium Battery Charger. Please read these instructions carefully before use to ensure optimal performance and longevity of your device and battery.



Image 1: OGRPHY 48V 18A Lithium Battery Charger. This image displays the charger unit with its handle and cooling fan,

showcasing its robust design.

## 2. SAFETY INSTRUCTIONS

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**WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.**

- DO NOT short circuit the charger.
- DO NOT attempt reverse charging.
- DO NOT disassemble the charger.
- DO NOT expose the charger to excessive heat or immerse it in water.
- Keep the charger away from children and pets.
- Ensure adequate ventilation during operation to prevent overheating.
- The charger must match the battery pack to be charged (specifically designed for 48V LiFePO4 batteries).
- AC input and DC output must be connected correctly.
- Do not touch input or output terminals during charging.

## 3. PRODUCT FEATURES

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- **Customized for LiFePO4 Battery:** Specifically designed for 48V LiFePO4 batteries, providing a stable 58.4V DC voltage and a 3-stage charging mode to fully charge and prolong battery life.
- **Fast Charging:** Delivers a maximum current of 18A, offering higher charging efficiency and shortening charging time by approximately 1.8 times compared to standard 10A chargers. Supports deep cycle charging without damaging batteries.
- **0V Charging Function:** Capable of charging lithium batteries with very low voltage. This function can activate and charge 48V lithium batteries that have triggered BMS protection, a feature often absent in other smart chargers.
- **Safe and Non-Heating:** Equipped with intelligent protection functions including short circuit protection, over voltage protection, and battery isolation protection. Features temperature protection and efficient heat dissipation to prevent overheating during charging.
- **Easy to Use:** Simple plug-and-play operation. The 58.4V lithium battery charger can be secured to battery terminals for stable and smooth charging.

## 4. SETUP AND INSTALLATION

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The OGRPHY 48V 18A LiFePO4 Battery Charger is designed for straightforward setup. Ensure all connections are secure before initiating the charging process.

1. Connect the DC output cable from the charger to your 48V LiFePO4 battery terminals. Ensure correct polarity (red to positive, black to negative).
2. Connect the AC input cable to a standard AC power outlet (100-240V, 50/60Hz).
3. The charger features pre-installed mounting holes for permanent installation, such as in a golf cart. Use appropriate fasteners for your mounting surface.

# ONBOARD LITHIUM BATTERY CHARGER

Easy to install



**Reserve mounting holes, Multi-paragraph connections.  
Coil connector, No disassembly is required after installation.**

Image 2: Charger with mounting holes and multi-paragraph connections. This image highlights the charger's design for easy installation and secure connections.

## 5. OPERATING INSTRUCTIONS

Once the charger is properly connected to the battery and power source, it will automatically begin the charging process. Monitor the charging status using the integrated indicators.

### Charging Indicators:

- **Red light flashing:** Battery charge level is  $\leq 90\%$ .
- **Green light flashing:** Battery charge level is  $\geq 90\%$ .
- **Green light always on:** Battery is 100% fully charged.



Image 3: Charger displaying LED indicators for charging status. This image illustrates the visual cues for monitoring the battery's charge level.

#### 0V Charging Function Activation:

If your 48V lithium battery's Battery Management System (BMS) has activated protection due to low voltage, connect the OGRPHY charger. It will attempt to activate and charge the battery from 0V, restoring functionality.

# 18AMP, FAST CHARGING



## 0V charging function Activates low voltage batteries

Image 4: Diagram illustrating the 0V charging function and fast charging capabilities. This image shows how the charger can activate low-voltage batteries and provides charging time estimates for different battery capacities.

## 6. MAINTENANCE

The OGRPHY charger is designed for durability and minimal maintenance. Follow these guidelines to ensure its continued performance:

- Keep the charger clean and free from dust and debris.
- Store the charger in a dry, well-ventilated area when not in use.
- Regularly inspect cables and connectors for any signs of damage. Replace if necessary.
- Do not obstruct the cooling fan or ventilation fins during operation.

## 7. TROUBLESHOOTING

If you encounter issues with your OGRPHY charger, consider the following common solutions:

- **Charger not turning on:** Ensure the AC input cable is securely plugged into a live power outlet. Check for any tripped circuit breakers.
- **Battery not charging:** Verify that the DC output cable is correctly connected to the battery terminals with proper polarity. Confirm the battery type is 48V LiFePO4.
- **Overheating:** Ensure the charger is in a well-ventilated area and the cooling fan is not obstructed. If overheating persists, discontinue use and contact support.
- **0V Charging Function not working:** Ensure the battery is indeed a 48V LiFePO4 battery and that the connections are secure. If the battery remains unresponsive, it may require professional assessment.

## 8. SPECIFICATIONS

Feature	Detail
Item Name	48V Charger
Output Voltage	58.4Vdc
Input Voltage Range	AC100~240V 50/60Hz
Output Current	18A
Operating Temperature	-10°C~40°C (14°F~104°F)
Dimensions	23.5(L)x13.8(W)x7.8(H)mm / 9.25(L)x5.43(W)x3.07(H)inch
Net Weight	4 lbs (1.82 kg)
Protection Features	Short circuit, over voltage, battery isolation, temperature protection

# LITHIUM BATTERY CHARGER

## Technical Indicators



- **Input**  
100~240Vac 50/60Hz 12A MAX
- **Output voltage**  
58.4Vdc
- **Output current**  
18A
- **Operating Temperature**  
-20°C~45°C (-4°F~113°F)
- **Dimensions**  
23.5(L) x 13.8(W) x 7.8(H)mm  
9.25(L) x 5.43(W) x 3.07(H) inch

Image 5: Technical indicators of the OGRPHY 48V 18A Lithium Battery Charger. This image provides a visual summary of the charger's key specifications.

## 9. WARRANTY AND SUPPORT

OGRPHY provides high-quality after-sales service for this product. If you have any questions or require technical assistance, please do not hesitate to contact us.

- 24 hours one-to-one customer service.
- Lifelong technical support.

