

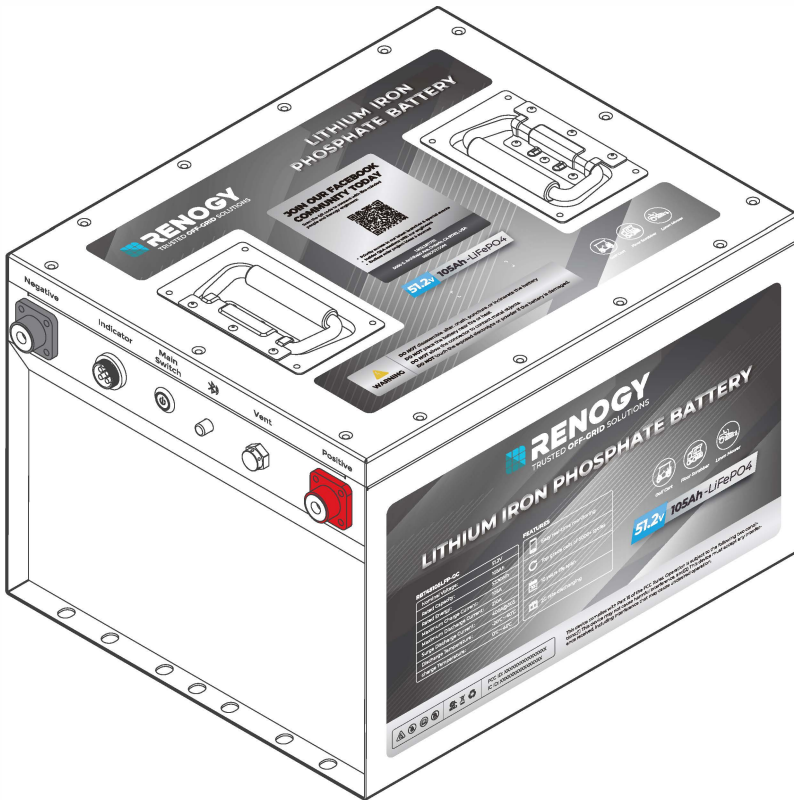
# RENOGY

## Lithium Iron Phosphate Battery

51.2V | 105 Ah

RBT48105LFP-GC

VERSION A0  
February 18, 2025



## USER MANUAL

## Before Getting Started

The user manual provides important operation and maintenance instructions for Renogy 51.2V 105Ah Lithium Iron Phosphate Battery (hereinafter referred to as battery).

Read the user manual carefully before operation and save it for future reference. Failure to observe the instructions or precautions in the user manual can result in electrical shock, serious injury, or death, or can damage the battery, potentially rendering it inoperable.

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## Online Manual



User Manual



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## Symbols Used

The following symbols are used throughout the user manual to highlight important information.

-  **WARNING:** Indicates a potentially dangerous condition which could result in injury or death.
-  **CAUTION:** Indicates a critical procedure for safe and proper installation and operation.
-  **NOTE:** Indicates an important step or tip for optimal performance.

## Introduction

Renogy 51.2V 105Ah Lithium Iron Phosphate Battery is a large capacity lithium battery featuring unmatched performance, reliability, and convenience for modern electric vehicles such as golf carts and club carts. Designed to meet the rigorous demands of daily use on golf courses and other scenarios, it combines high power output, exceptional longevity (5,000 cycles), and a lightweight, compact form factor. Its advanced features, including a built-in Battery Management System (BMS), fast charging capabilities, and real-time monitoring, ensure seamless operation and ease of use.

Whether you need extended range, smooth acceleration, or dependable performance in challenging weather, the battery is engineered to elevate your golf cart experience.

## Key Features

- **Superb Performance & Built-in BMS**  
Delivers 5.376kWh of usable energy capacity. Equipped with a 220A built-in Battery Management System (BMS), allowing continuous 210A discharge, 400A peak discharge for up to 30 seconds. Enjoy exceptional acceleration and impressive surge power for an exhilarating golf cart experience.
- **Exceptional Longevity and Long Range**  
Offers over 5,000 cycles (80% DOD) and high capacity on a single charge. Weighing 50% lighter than the lead-acid battery of the same capacity, the battery is easier to handle and install in locations where space is limited.
- **Fast Charging Capability**  
Comes with a 58.4V 20A dedicated 48V battery charger, supporting fast charging from 0% to 100%.
- **Real-Time Monitoring**  
Provides complete visibility and control of the battery, including voltage, current, temperature, and battery status on the included battery indicator. In addition, you can monitor the battery performance anytime when pairing it with the DC Home app (free of charge) via Bluetooth.
- **Low-Temperature Protection**  
Features low-temperature charging and discharging protection in cold weathers, ensuring reliable performance and peace of mind.

## SKU

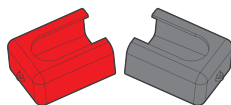
Renogy 51.2V 105Ah Lithium Iron Phosphate Battery	RBT48105LFP-GC-G1
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## What's In the Box?

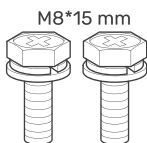
Renogy 51.2V 105Ah  
Lithium Iron Phosphate Battery × 1



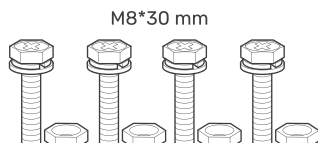
User Manual × 1



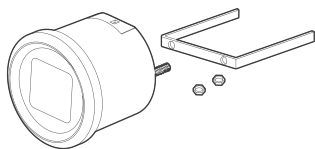
Insulation Sleeves × 2



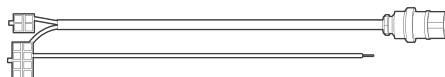
Terminal Bolts × 2



Battery Fixing  
Bolts (with nuts) × 4



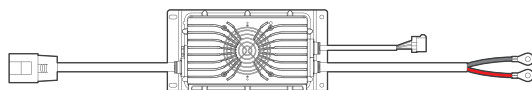
Battery Indicator  
(with a support bracket and two fixing nuts) × 1



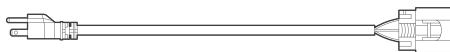
Battery Indicator Communication Cable (3m) × 1



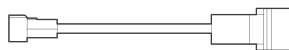
Battery Extension Cables (0.72m) × 2



Battery Charger × 1



AC Input Cable (3m) × 1



Additional Charger Indicator  
(with a 1.3m cable) × 1



Make sure that all accessories are complete and free of any signs of damage.