RENOGY
TRUSTED ENERGY SOLUTIONS

GOLF CART LITHIUM IRON PHOSPHATE BATTERY

51.2V | 105Ah





Renogy Golf Cart **Lithium Iron Phosphate Battery**

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.

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 Renogy 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.

TECHNICAL SPECIFICATIONS

Battery Specifications

Rated Capacity (0.5C, 25°C)	105Ah
Nominal Voltage	51.2V
Charge Voltage Range	40V to 58.4V
Recommended Charge Current	15A to 105A
Recommended Discharge Current	105A (210A, Max)
Peak Discharge Current	400A @30s
Charge Temperature Range	32°F to 113°F (0°C to 45°C)
Discharge Temperature Range	-4°F to 140°F (-20°C to 60°C)
Storage Temperature Range	41°F to 113°F (-5°C to 45°C)
Operation Relative Humidity	10% to 95%
Cycle Life (0.5C, 25°C)	5000 Cycles (80% DOD)
Communication	Bluetooth
Dimensions	15.55 × 12.99 × 10.63 in / 395 × 330 × 270 mm
Weight	106.92 lbs / 48.5 kg
Terminal Bolt Size	M8 × 15 mm
Protection Rating	IP65
Certification	UN38.3, MSDS, FCC ID, and IC ID
Warranty	5 years

Battery Charger Specifications

Nominal Charge Voltage	51.2V
Maximum Charge Voltage	58.4V
Maximum Continuous Charge Current	20A
AC Input Voltage Range	90V to 264V
Operating Temperature	-40°F to 122°F (-40°C to 50°C)
IP Rating	IP66
Dimensions	11.1 × 5.75 × 3.24 in / 282 × 146 × 82.4 mm
Operation Relative Humidity	10% to 95%