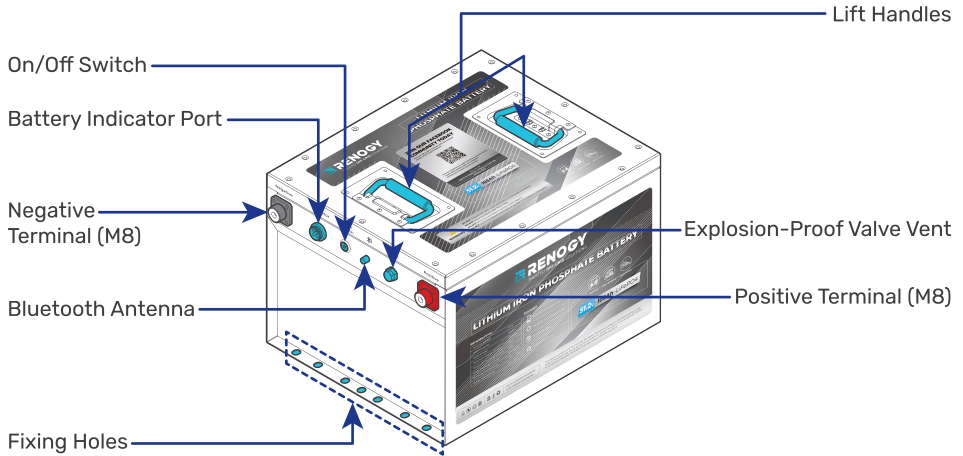
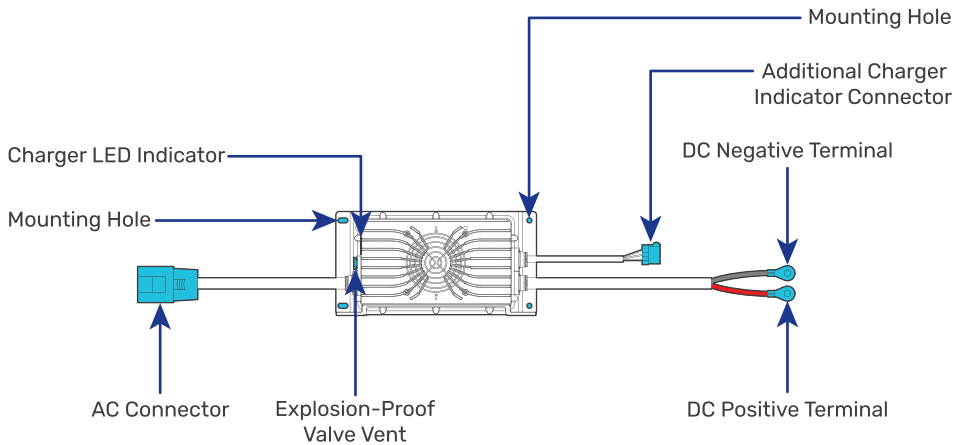


Get to Know Lithium Iron Phosphate Battery and Charger

Battery Overview



Battery Charger Overview




Explosion-Proof Valve Vent

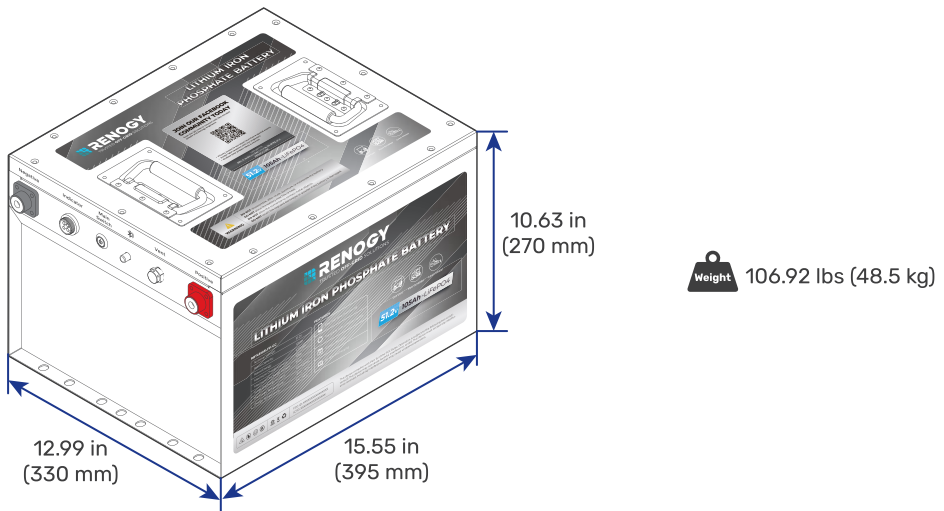
The battery includes an explosion-proof valve vent is a crucial component that ensures safety during operation. During battery operation, gas is released due to internal chemical reactions, causing the internal pressure to gradually rise.

- **Opening Mechanism:** When the internal pressure reaches the valve vent's opening threshold, the valve vent automatically opens to release the gas, preventing overpressure and potential damage.
- **Closing Mechanism:** Once the internal pressure drops to the valve vent's closing threshold, the valve vent automatically shuts, maintaining an optimal sealed state.

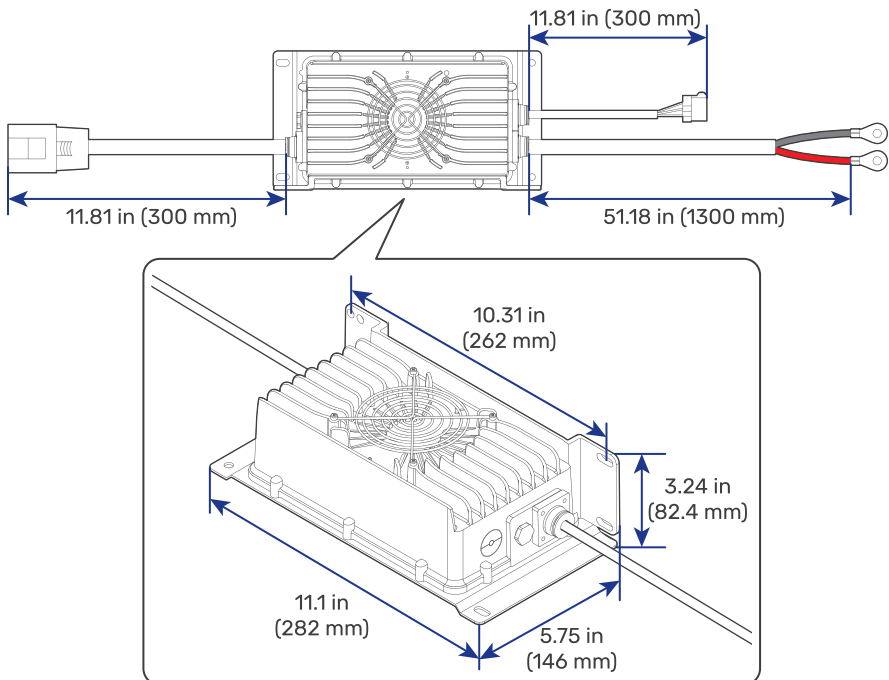
Dimensions

 Dimension tolerance: ± 0.2 in (0.5 mm)

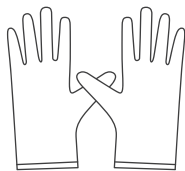
Battery



Battery Charger



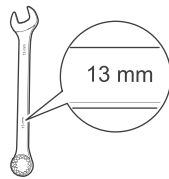
Required Tools & Accessories



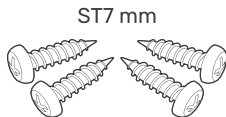
Insulating Gloves



Multimeter



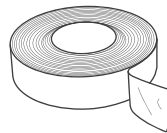
Wrench (17/32 in)





Self-tapping Screws x 4



Phillips Screwdriver (#2)



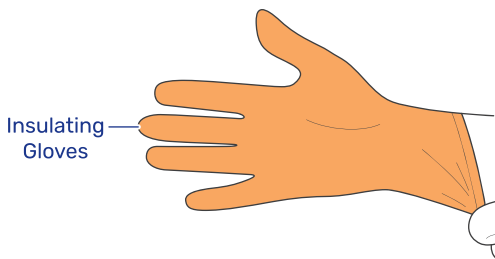
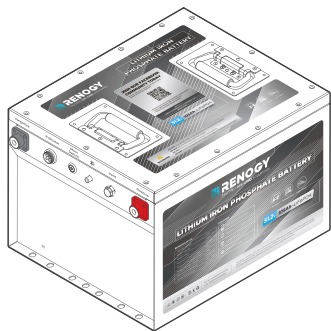
Insulation Tape

-  Prior to installing and configuring the battery and battery charger, prepare the recommended tools, components, and accessories.
-  Choose proper mounting screws specific to your installation site. This manual takes self-tapping screws for wooden walls as an example.

Installation

This manual focuses on golf cart applications, with installation steps specifically tailored for golf carts. Typically, the battery is installed in the dedicated compartment located under the seat or on the cart's chassis. Similar rules apply to other suitable scenarios, provided the installation meets safety and performance requirements.

Step 1. Wear Insulating Gloves



Insulating
Gloves

Step 2. Check the Battery and Battery Charger

Inspect the battery and battery charger for any visible damage including cracks, dents, deformation, and other visible abnormalities. All connector contacts shall be clean, free of dirt and corrosion, and dry.

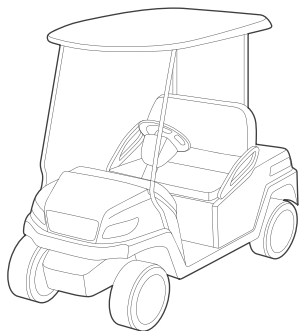


Do not touch the exposed electrolyte or powder if the battery is damaged.

- ⚠ If any uncovered electrolyte or powder comes into contact with your skin or eyes, flush the area immediately with plenty of clean water and seek medical attention.
- ⚠ Connecting the battery in series or parallel is NOT allowed.

Step 3. Remove Legacy Batteries

Check the user manual of your golf cart to ensure that its rated voltage is 48V that matches the voltage of the 51.2V 105Ah Lithium Iron Phosphate Battery. Follow the steps outlined in the user manual to remove the legacy battery or batteries from your golf cart.



48V Rated Voltage



Other Voltage Ratings

- ⚠ Installing this battery in a non-48V system is prohibited. Such improper installation may cause damage to both the golf cart and the battery, resulting in the voiding of the warranty.
- ℹ If you are unsure of the voltage of legacy battery in your golf cart, use a multimeter to measure the battery voltage.
- ℹ Do not dispose of the legacy battery or batteries as household waste. Comply with local, state, and federal laws and regulations and use recycling channels as required.

Step 4. Fix the Battery and Battery Charger

The battery must be installed only in a vertical orientation with the lift handles on top.

For optimal battery performance, it is recommended to install the battery, included charger, and battery indicator in a clean, cool, and dry location, free from any accumulation of water, oil, or dirt. Accumulation of such materials on the battery and charger can lead to current leakage, self-discharge, and even short-circuiting.

Ensure the battery is installed in a well-ventilated location to prevent the accumulation of explosive gases during battery charging.

- ⚠ Risk of explosion! Do not install the battery and battery charger in a sealed space. Proper ventilation is essential to ensure safety.
- ⚠ Sufficient air flow must be provided to prevent excessive heat build-up and to minimize temperature variation between the connected batteries.

Since each of the DC cables on the battery charger is 1.3 meters long, check the distance between the charger and the battery when selecting their fixed positions. This will help avoid insufficient cable length, which could lead to improper connections.