

**Disclaimer : This document illustrates only major points, outlined fully in the warranty.**

## Safety and Precautions

### Safety Instructions

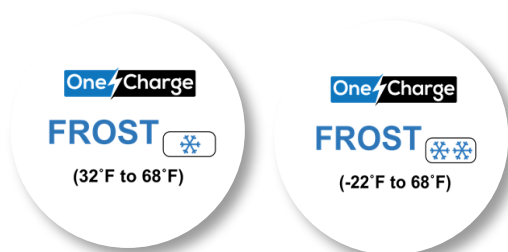
Installation must be performed by professional installers only. Switch off the system and check for hazardous voltages before altering any connection.

Batteries with DC voltage greater than 48 volts require special precautions. Use appropriate tools, equipment and clothing when handling battery components. No one should touch the contactors in the charging or discharging (load) connectors of the battery, even when the battery is switched off.

### Warranty Regulations

- Do not open the Lithium Ion Battery.
- Charge only within specified voltage limits.
- Always keep battery upright.
- Do not pressure wash, wipe clean only.
- Do not operate, if cables or cable insulation are worn or damaged.
- Extinguish fires with class A, B and C fire extinguishers only.

### Frost Package Rules



Do not leave batteries with Frost package unattended while powered on. Batteries with **FROST** Package should not operate outside of the temperature range, for which they are designed.

## Battery Usage (quick notes)

- Scrolling indicator: battery is charging.
- Green lights: SOC is above 50%.
- Orange lights: SOC is below 50%.
- Red lights: SOC is below 20%.
- 2 orange bars blinking: see instructions below.
- 2 red bars blinking: see instructions below.
- All bars flashing red or orange: a fault in the functions of the battery. See instructions below.

## Battery Reset

During operation, temporary errors may occur due to BMS protections being triggered or other faults. In the event that your battery faults or prematurely stops charging/discharging, please follow these instructions:

1. Push the power button to power battery off.
2. Wait 10 seconds, and push the button to turn battery back on.
3. At this time, the battery should go through a series of flashing lights and beeps. The battery should now indicate its current state of charge. If it still indicates an error, please contact battery supplier.

**Please contact your battery supplier if reset is required multiple times in a day.**

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# Lithium Ion Industrial Battery User Manual

(version 9)



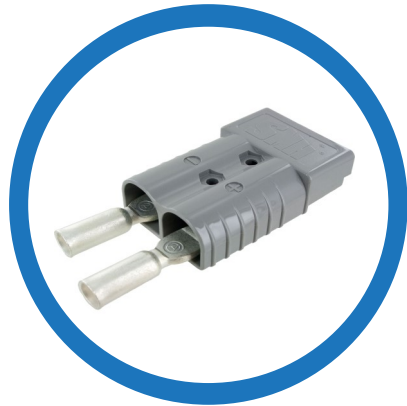
## Installation

OneCharge batteries are used instead of lead acid, motive power batteries. The battery is lifted with standard crane hooks, holes for which are located on the sides of the battery. Installation must be performed by qualified installers only.

Do not remove the lid covering the top of the battery. Removing the lid without prior training and authorization, will void all warranties.

## Connecting Battery

The battery is connected to the truck with a standard motive power battery connector. (The + side is indicated by red heat shrink.)

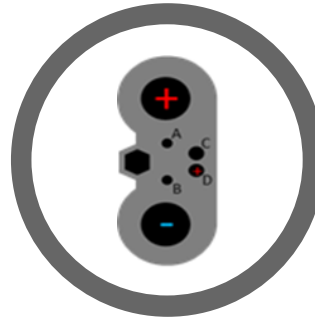


If the battery connector does not match the one on the forklift, contact the battery supplier. Do not make a jumper or alter the existing connectors.

**Never charge the battery through a truck connector. Using this method to charge the battery will damage the battery and void all warranties.**

## Battery Use

The battery must be powered on during use in a lift truck and for charging. The battery is powered on by pushing the button near the LED indicator. It is not necessary to turn the battery off unless instructed to do so by authorized personnel.



The battery is charged through a Euro connector, shown above. Always use an approved charger to charge the battery. Ensure that the connector is always fully engaged. During charging, power to the truck could be terminated. **Do not use a lift truck that has power, while plugged into a charger. Report such instances to the battery supplier. Ignoring this, may cause damage to the lift truck and charging station. OneCharge is not responsible for damage to charger station, truck or goods caused by driver's negligence.**

**The battery should remain plugged into the charger anytime while not in use.** Providing a partial charge during breaks and lunch will help extend the life and capacity of the battery. **OneCharge Lithium Ion forklift batteries** should always remain plugged in during off hours.

The lift operator should be mindful of the state of charge (SOC) as indicated by LED display on the side of the battery and the audible alarm. It is not recommended to discharge the battery to less than 5% state of charge. When the 5% threshold is reached, it is possible for the battery to shut down to protect the cells.

**In order to prevent emergency shut downs, it is recommended to partially charge the battery at any possible instances throughout the work day.**

## Operation Conditions

Standard operating temperatures are:

- Optimal charging: 50° F - 113° F.
- Optimal discharging: 32° F - 131° F.
- Charging/discharging: up to 98% humidity.
- Storage: up to 70% humidity.

Optional accessories are available for environmental conditions that exist above or below the recommended range.

Storage instructions:

- Store at 80% SOC and 41° F - 68° F.
- Discharge/charge battery every 6 months.

## State of Charge Indicator (SOC)

- The LED indicator consists of 10 bars, each bar representing 10% State of Charge.
- The indicator will be green when the state of charge is between 50-100%.
- The indicator will be orange when state of charge is between 20-49%.
- The indicator will be red when state of charge is below 20%.

In addition to the LED indicator, there is an audible alarm. When the battery has been discharged below 50%, the operator will hear a single 'beep' every 4 minutes. Once the battery is discharged below 20%, a triple 'beep' will sound every minute.

