

Thank you for purchasing a Venom Industrial Lithium Iron Phosphate (LiFe) battery.

CAUTION

Using LiFe batteries can be hazardous!

Read this manual in its entirety before attempting to use this product.

Failure to observe any of the following precautions can result in fire, explosion and cause personal injury.

Safety Warnings:

-  1. Failure to observe any of the following precautions can result in fire, explosion and cause personal injury.
-  2. If at any time you have had an incident with your device, or if the battery swells, “balloons”, or feels too hot to the touch, carefully follow these safety steps.
 - a. Using protective gloves, remove the battery pack from your device or charger.
 - b. Place the battery in a safety sack or other fireproof container, away from flammable materials and in a well-ventilated area.
 - c. Observe the battery from a safe distance for at least 30 minutes.
 - d. If after 30 minutes the pack appears stable, follow the battery disposal instructions below.
 - e. Under no circumstances should you return a battery to service that has swollen, “ballooned” or been damaged in any way.
-  3. Immediately discontinue the charging of a LiFe battery if it begins to swell or “balloon”.
-  4. Always handle LiFe batteries with extreme care and take all necessary care to avoid battery packs and cells being dinged, dented, punctured, or otherwise damaged.
-  5. Keep battery packs out of the reach of children and pets.
-  6. Do not disassemble, modify, or attempt any form of repair of a LiFe battery.
-  7. Do not allow exposed battery wires to touch each other.
-  8. Always disconnect your battery from any device when not in use. All devices continue to draw power even when turned off.
-  9. Store your batteries in a cool, dry place between 40-80°F / 4-26°C. All battery packs should be stored away from any flammable materials and in a safety sack or other fireproof container with the plugs/connectors covered.
-  10. Batteries should be stored at 3.20-3.25 volts per cell. Do not store batteries with voltage above or below this range for longer than one week.

-  11. LiFe batteries must be fully charged and returned to the recommended storage voltage range (3.20-3.25 volts per cell) at least once every six months.
-  12. Always take precautions to cover the battery plugs/connectors while not in use.
-  13. Always transport LiFe batteries in safety sack or other fireproof container with the battery plugs/connectors covered.
-  14. Never leave LiFe battery packs in an automobile. Temperatures within a vehicle can quickly reach unsafe levels.
-  15. Always keep a class D chemical fire extinguisher nearby, in case of fire when storing, handling, charging or using LiFe battery packs.
-  16. Always use a charger specifically designed for LiFe batteries. Never use NiCD or NiMH chargers to charge LiFe batteries.
-  17. Always charge batteries in a safety sack or other fireproof container. Do not charge any type of battery on or near any flammable materials including in or near your device.
-  18. Never charge a LiFe battery that feels too hot to the touch. Always allow a battery to cool to ambient temperature before charging.
-  19. Never leave batteries unattended while charging, even when using a safety sack or other fireproof container. Batteries on charge MUST remain under constant observation so that you may react quickly should any problems arise.
-  20. Charge each battery pack individually. Never charge battery packs in series or parallel. Charging packs in series may result in improper charger cell recognition, improper charging rate, and over charging that may lead to a fire. We recommend using a Venom LiFe balance charger when charging your LiFe batteries.
-  21. Always check to make sure that your LiFe charger settings match those listed in the battery pack datasheet. Refer to the battery datasheet for the proper cell count and charging amperage setting.
-  22. Make sure the battery connections are connected in the proper polarity.
-  23. Battery packs should be properly secured within the device to prevent movement and damage to the battery while in use.
-  24. If, during charging, the battery exceeds temperatures of 140°F / 60°C immediately discontinue charging and isolate the battery pack. Refer to point number two above from the Safety Warnings for further instruction.
-  25. Do not, under any circumstances, heat up a battery pack in an attempt to increase pack performance. Doing so greatly increases the risk of fire.
-  26. Never allow your device to discharge a LiFe battery pack at more than the recommended continuous discharge rate. Refer to the datasheet of your specific battery to determine the proper continuous discharge rate. You must also refer to the user manual for your specific device to ensure the continuous discharge rate of your battery is not exceeded.

-  27. Damaged or ruptured battery packs or cells may leak electrolytes which can cause moderate to severe irritation including burning and dryness of the skin and eyes. For contact with the skin thoroughly wash the affected area with soap and warm water. For contact with the eyes, rinse thoroughly with cool water. Seek immediate medical attention for any burns.

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Charging Instructions & Safety Warnings

-  1. Do to international shipping regulations, LiFe batteries are not shipped fully charged. All Venom Industrial LiFe battery packs should be fully charged prior to the first use.
-  2. Always use a charger specifically designed for LiFe batteries. Never use NiCD or NiMH chargers to charge LiFe batteries.
-  3. Charge each battery pack individually. Never charge battery packs in series or parallel. Charging packs in series may result in improper charger cell recognition, improper charging rate, and over charging that may lead to a fire. We recommend using a Venom LiFe balance charger when charging your LiFe batteries.
-  4. Make sure the battery connections are connected in the proper polarity.
-  5. Always check to make sure that your LiFe charger settings match those listed in the battery pack datasheet. Refer to the battery datasheet for the proper cell count and charging amperage setting.
-  6. For the longest lifecycle and most thorough charging of your LiFe battery we recommend a not exceeding the recommended charge rate listed in the datasheet. While your charge time will be reduced with higher charge rates, the lifespan of your battery pack will also be reduced with repeated charging above the recommended rate. Always confirm and follow your specific packs maximum charge rate as listed in the datasheet.
-  7. Do not charge LiFe batteries to more than 3.6 Volts per cell. Refer to the datasheet of your specific battery for maximum cell and pack voltage.

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Important Information Regarding Over-discharge and Safety Warnings

-  1. Do not use LiFe battery packs with any device that does not have over-discharge protection, which is turned on and properly calibrated. Over-discharge protection or low voltage cut-off (LVC) should be set to no lower than 2.5V per cell.
-  2. Batteries should be stored at 3.20-3.25 volts per cell. Do not store batteries with voltage above or below this range for longer than one week.
-  3. LiFe batteries must be fully charged and returned to the recommended storage voltage range (3.20-3.25 volts per cell) at least once every six months.
-  4. Do not discharge LiFe batteries below 2.5 Volts per cell.
-  5. Never allow your device to discharge a LiFe battery pack at more than the recommended continuous discharge rate. Refer to the datasheet of your specific battery to determine the proper continuous discharge rate. You must also refer to the user manual for your specific device to ensure the continuous discharge rate of your battery is not exceeded.
-  6. Be sure to disconnect battery packs from any and all devices immediately after use.

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Battery Disposal Instructions & Safety Warnings

-  1 Any battery that has been subjected to conditions outside of normal use, shows signs of swelling, “ballooning”, damage or has been retired from use should be disposed of properly. We recommend transporting these battery packs to an approved disposal facility while observing the applicable safety warnings above.
-  2. Check with your local waste facility to determine if they can handle disposal of lithium batteries and if they are permitted. Many stores also offer free recycling of rechargeable batteries. To find a drop-off location near you please visit: <http://www.call2recycle.org/locator>

Venom Industrial Warranty Policy

Warranty Coverage

All products sold by Vertical Partners West are inspected before leaving the factory. If those products are put to professional, commercial or industrial use, they are guaranteed to be free of defects in material and workmanship appearing within 1 year from the original date of shipment. During that period, as its sole responsibility and as the purchaser's sole remedy under this warranty, Vertical Partners West will repair or replace defective products or, at its sole discretion, issue a credit memo for the purchase price of such products.

The above warranty does not cover software, which is provided as part of Vertical Partners West's products on an AS IS basis, with no warranties.

Other Warranties

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

Exclusions

There is no "industry standard" for life expectancy of a rechargeable battery. The life cycle of batteries varies greatly by chemistry and construction and can be greatly affected by how batteries are used, charged and stored. These factors are outside our control and thus our warranty only covers defects in materials or workmanship.

Vertical Partners West will not be liable for warranty replacement of packs that are used outside of normal operating parameters. If you are unsure about how to use or handle any of our products contact Vertical Partners West for assistance.

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