



# EVO Battery Instructions

Congratulations on your purchase of a Ballistic Performance Components EVO Battery. EVO batteries are very different in chemistry, construction, and behavior than a traditional lead-acid battery. Here are some things to consider while using your EVO battery:

## Specifications:

**Maximum Voltage:** 14.4 volts

**Minimum Charged Voltage:** 13.2 volts

**Charged Resting Voltage:** 13.2 volts-13.7 volts.

**Minimum Voltage:** 8.0 volts

**Standard Charge Specifications:** 2amps @ 13.2 volts until the battery reaches a maximum voltage of 14.4 volts

**Maximum Charge Specification:** 10amps @ 13.2-14.4V or until the battery registers 14.4V

## Charging:

The best method for charging your EVO battery is to use the Ballistic EVO Advanced Charger. You can also use a conventional automotive or motorcycle based charger to recharge your EVO Battery, but be sure you don't under charge or over charge the EVO Battery with an unknown charger. When using a conventional charger please check the following:

- 1.) The charger should have an automatic cut-off at 14.4V to prevent over charging.
- 2.) If you are using an automatic charger, be sure it does not have an automatic "desulfation" mode. This is a lead-acid specific function that can damage the EVO cells.
- 3.) Some conventional automatic chargers have charging parameters based around lead-acid voltage specifications which are lower than EVO voltage specifications. If your automatic charger shuts off at 12.8 volts then it will never fully charge an EVO battery with a minimum charged voltage of 13.2v.
- 4.) Do not charge a Ballistic battery over 14.4 volts. Over charging the EVO Battery may cause overheating of the cells and critical battery failure.

## Storage:

The EVO battery will not discharge like a traditional lead-acid battery so unless your powersports vehicle has a parasitic draw like an alarm, immobilizer, or LowJack that draws energy from the battery when the switch is off, there is no need to use a maintenance charger. If your bike does have a parasitic draw, we recommend the use of the EVO Advanced Charger as a maintenance charger or simply disconnect the negative terminal from the battery. It is important to note that although your EVO battery may have more cranking amps than the conventional lead-acid battery, it may also have less amp/hours and will be affected more dramatically by a parasitic draw. We offer Quick Disconnect Kits to make disconnecting the EVO battery for extended storage as easy as possible. If left static (nothing drawing from the battery) an EVO battery will discharge at a rate of around 10% per year.

## Cold Weather:

Ballistic Performance Components EVO batteries behave differently in cold weather (below 32°F or 0°C) than traditional lead acid batteries. A traditional lead acid battery delivers maximum current at the first

initial draw and then degrades from there. EVO batteries actually get stronger with each successive draw. In cold weather the EVO battery has the ability to generate its own internal heat energy by putting a draw on the battery. In cold weather, the EVO battery may need to have a draw put on the battery several times before it is up to temperature and ready to deliver maximum amperage. We rate the EVO battery with an operating environment of 0°F (-18°C) to 140°F (60°C). We strongly advise all of our customers to view our "cold starting procedures" video on our website: [www.ballisticparts.com](http://www.ballisticparts.com).

**WARNINGS** – Failure to follow the warnings below may result in damage to the EVO Battery, damage to the vehicle, injury or death.

- Do not attempt to start your vehicle with a discharged battery. If your vehicle has trouble starting, check voltage of the battery and recharge the EVO Battery.
- Do not charge the EVO Battery over 14.4 volts. Overcharging the battery may cause cell damage and in extreme cases melt down, rupture, or combustion. The EVO battery will recharge very quickly compared to a lead-acid battery.
- Do not short out the EVO Battery. A hard short will cause cell damage and in extreme cases melt down, rupture, or combustion.
- Do not allow the EVO battery to become discharged below 8.0 volts. Excessive discharge from a parasitic draw or accidental discharge may cause cell damage. If the battery is discharged below 8.0v, recharge immediately.
- Do not jump start your EVO Battery with a running vehicle. This may cause the battery to become overcharged. Do not jump start if below 10.0v. Recharge immediately with an external charger.
- Do not puncture, rupture, submerge in liquid, or expose to direct heat. Puncture, rupture, exposure to direct heat or submerging in liquid will damage the battery and in extreme cases cause melt down, rupture, or combustion.

## Battery Installation:

EVO batteries are charged before shipping. Although EVO Lithium Batteries have an exceptional self-discharge rate of only 10% per year, they will discharge over time. Please check voltage before installing to ensure that your battery has at least 13.2 volts. If your battery is below 13.2 volts, please charge the battery according to the charging specifications listed on this sheet. EVO batteries are in some cases smaller than the OEM battery. EVO batteries are not original equipment replacements and the size, shape, terminal location, and terminal configuration may be different than the original battery. Some modification may be required to install the EVO battery in your powersports vehicle. We sell several cable extension kits and quick disconnect kits to aid in installation. Also, there is foam that comes in the packaging that can be used to take up the extra space in the OEM battery box. Please be sure that the battery is secure, insulated from vibration, and the terminals are free from coming in contact with conductive material that could short out the battery. If the battery is used in an extremely wet environment, it is recommended to protect the electrical connections, especially the BMS port, with dielectric grease.

## **EVO Battery Warranty:**

Ballistic Performance Components Batteries are built by hand in the USA to the highest specification available. Each Ballistic Battery is then run through the most stringent quality control standards and bench tested to insure that it performs as advertised. Because of our high level of quality control we offer an industry leading 3 YEAR LIMITED WARRANTY.

- Ballistic's Battery warranty is for function only. Warranty does not cover physical damage, misuse, or improper charging. Ballistic is not liable for any damage to either person or personal property resulting from the use of this product. If the battery is physically damaged in any way the claim will be denied. Ballistic Performance Components extends a warranty only to parts manufactured by Ballistic Performance Components.
  - Conditions not covered under warranty:
    - Abuse or physical damage of any kind including damage to terminals.
    - Applications not listed on the Ballistic website or using the EVO Battery as a main power source.
    - Hard short of the terminals or BMS port.
    - Damage from emersion in liquid.
    - Cell damage as a result of being drained below 30% of capacity.
    - Over charging or damage as a result of a defective charger, charger settings or charging system.
    - Damage from use in excess of cranking capacity.
  - The 3 Year Limited Warranty is on a pro-rated basis based on the original date of purchase.
    - 1 – 12 Months – Free Replacement
    - 12 – 24 Months – 50% discount from retail
    - 24 – 36 Months – 25% discount from retail
  - All warranty claims must be accompanied by the original receipt from your retailer in order to be eligible for a warranty claim.
  - Warranties are non-transferable and meant for the original owner only. Returns will only be accepted from the original owner.
  - Warranty claim batteries must be returned to Ballistic Performance Components possession before any replacement battery can be shipped out.
  - Each Ballistic Battery is only eligible for one warranty replacement. Once a battery has been warranted the replacement item only holds the remainder of the warranty period of the original battery purchased.
- All shipping charges to Ballistic Performance Components, insurance and any damage incurred during shipping for any and all warranty claims is the customer's responsibility. If the battery is determined to be defective, Ballistic Performance Components will pay for return shipping of the replacement battery back to the customer (within the continental US) by ground shipping only. If the battery is found to be NOT defective, or the battery originated outside the continental US, shipping back to the customer will be at the customer's expense.
  - Ballistic Performance Components EVO batteries are designed as starter batteries in powersports vehicles. If the battery is used in sanctioned competition of any kind, abused, or used in a manner for which it was not intended the warranty is void.
  - Ballistic Performance Components LLC reserves the right to deny any and all claims if all conditions and terms are not met.



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