



## **Why Fullriver Battery?** *We have the answer...*

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At Fullriver Battery we care about meeting our customer's needs. That means we have to provide you with the best battery for your application. Let's tell you how we do that.

Many manufacturers offer several battery technologies but specialize in none. Fullriver Battery specializes in manufacturing only sealed, maintenance-free AGM batteries. Also, many manufacturers of conventional wet batteries do not actually produce their sealed products but rather source from another manufacturer. Fullriver manufactures the entire battery from grid casting through final assembly. This means we control the entire manufacturing process to ensure that we consistently produce to our design specifications. Our batteries are designed to provide a number of essential benefits and we use the highest quality raw materials to make sure we succeed. There is no compromise with Fullriver Battery.

### **Fullriver Battery provides the Benefits that you need and deserve.**

**High Capacity Cycling** – Designed to provide the runtime you need every time you use your equipment

**High Capacity Starting** – Our HC line is designed with the power to start any size engine

**Deep Discharge Recovery** – Optimum grid alloys for deep discharge recovery

**Long Life** – Engineered and manufactured for long life in deep cycling applications

**Durable** – Shock and vibration resistance with design features such as over-the-partition inter-cell welds

**High Quality Product** – Manufactured with the highest quality raw materials including de-ionized water

**Fast Recharge** – Low internal resistance allows for high rate charge currents compared to wet or gel batteries

**Easy Installation** – Most batteries are equipped with carrying handles for safe and easy placement

**Easy Connection** – Most batteries are equipped with terminal options for AP or Stud type connections

**Superior Conductivity** – Brass terminals provide superior conductivity and corrosion resistance

**Safe Operation** – UL recognized pressure relief valves to keep oxygen contamination out and safely release gas if over-charged.

**Long Shelf Life** – Only 1% self discharge per month

**Large Product Portfolio:** Deep Cycle and Starting/Dual Purpose lines available in all the industry standard sizes and capacities – we have the battery for your application

**High Standard Quality Assurance Processes** – ISO9001 Certification

**Maintenance-Free** – Valve Regulated Lead-Acid sealed construction does not require addition of water

**NON-SPILLABLE** – Can operate upright or on its side

**Non-Hazardous** – Can be used near sensitive equipment and in proximity of people

**Transportable** - Certified safe for land, sea or air transport by DOT, IATA, IMDG, ICAO

**Environmentally Friendly** – Non-Hazardous and Recyclable – Your Clean-Green Energy Solution

**Outstanding customer service from Fullriver Battery Company and our World-Wide Distributors**

## The Truth about Wet batteries and why Fullriver AGM batteries are your best choice

Wet battery manufacturers claim that wet batteries provide more cycle life than sealed batteries. However, the two leading causes of premature battery failure in conventional wet batteries are improper watering (either over- or under-watering) and improper charging (either over- or under-charging). Even one incident of over- or under-watering a conventional wet battery can cause irreversible damage resulting in premature battery failure. Why take the chance with your investment. With Fullriver AGM batteries you have eliminated one of the most common modes of battery failure since there is no water required.

Wet batteries release acid mist on the top of the battery and the environment. This acid residue not only corrodes the battery terminals which can cause loose terminal connections and ultimately terminal melting, but can also corrode the battery compartment, vehicle chassis and even the floor. This costly damage can be completely avoided with Fullriver AGM batteries, as they do not release any acid mist during proper operation.

## The Truth about Gel batteries and why Fullriver AGM batteries are your best choice

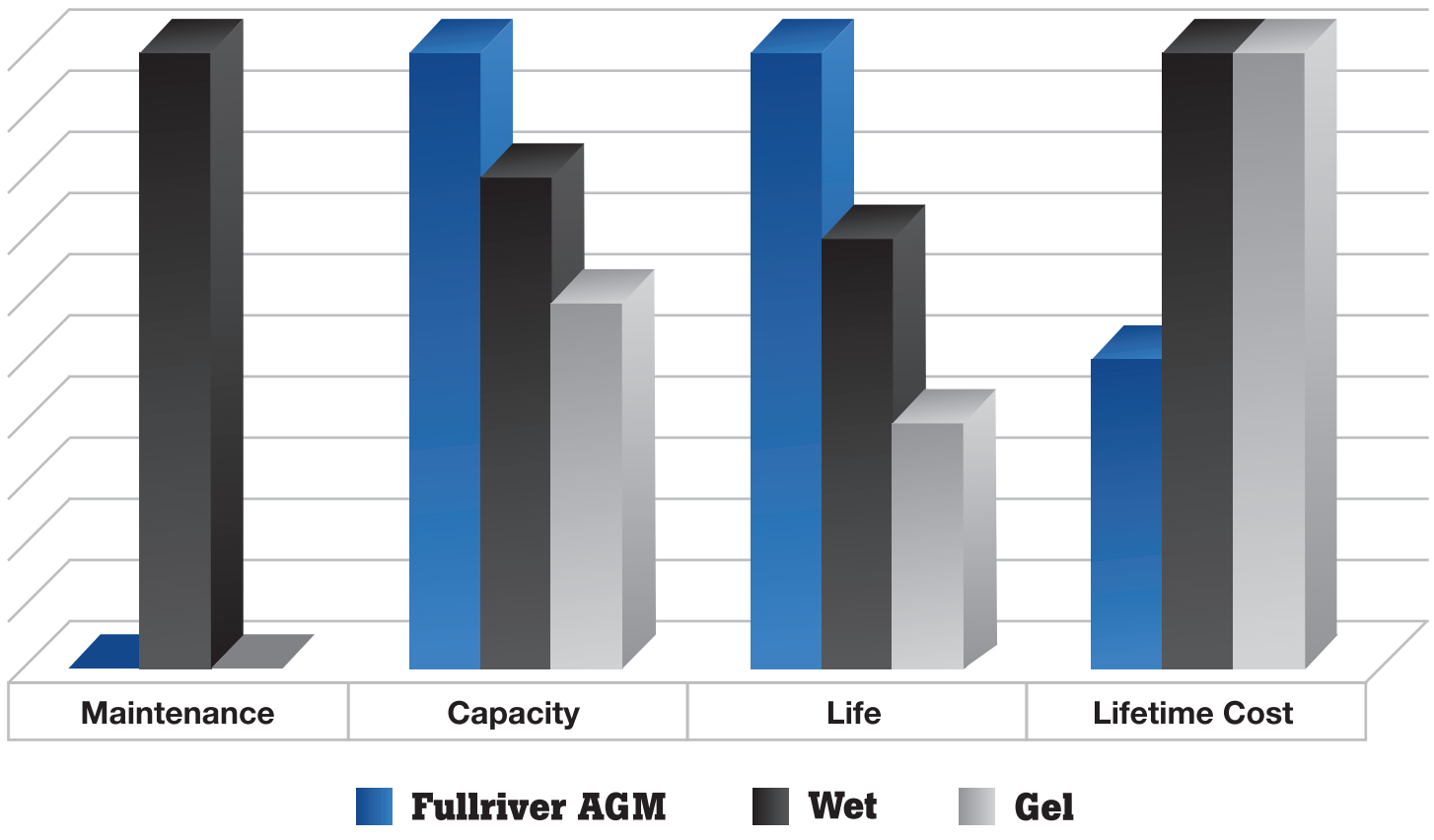
The leading cause of premature battery failure in Gel batteries is excessive over-charging. Many chargers aren't sophisticated enough to control over-charge and many customers use the same charger on their new sealed battery that they used on their old wet battery. Gel batteries are extremely sensitive to over-charge and the gel will quickly dry out resulting in reduced capacity and life. Since Fullriver AGM batteries' charging parameters are more aggressive than gel charging parameters, many wet battery chargers will do the job. Please refer to Fullriver Charging Guidelines for specific charging recommendations.

Gel batteries are much more acid starved and have significantly higher internal resistance than Fullriver AGM batteries. This reduces high rate starting capacity as well as deep cycling capacity. **Fullriver AGM batteries deliver high capacity from the moment they are installed and throughout their life.**

Gel battery manufacturers claim that gel batteries do not leak or spray acid mist. However gelled electrolyte can liquefy so it is not uncommon to see acid leakage or mist on the top of a gel battery. In fact, this was one of the drivers for the development of AGM technology - to have a truly spill-proof battery. This means with gel batteries you can have the same issues previously described with wet batteries related to corrosion and damage.

### Comparison of Fullriver AGM batteries to other battery technologies

FEATURES	FULLRIVER AGM	WET	GEL	OTHER AGM
MAINTENANCE-FREE VRLA	✓	✗	✓	✓
NON-SPILLABLE/NON-HAZARDOUS	✓	✗	✗	✓
SAFE FOR TRANSPORT	✓	✗	✓	✓
HIGHEST CAPACITY/RANGE/RUNTIME	✓	✗	✗	✗
LONGEST CYCLE LIFE IN APPLICATION	✓	✗	✗	✗
LONGEST SHELF LIFE	✓	✗	✗	✗
ENVIRONMENTALLY FRIENDLY	✓	✗	✓	✓
SHOCK AND VIBRATION RESISTANT	✓	✗	✓	✓
LOWEST INITIAL COST	✗	✓	✗	✗
LOWEST LIFETIME COST	✓	✗	✗	✗



For a maintenance-free battery that provides the highest capacity over the longest life at the lowest cost ...

***The choice is simple... Fullriver Battery***

**Order your Fullriver Battery Now!**

Now that you are confident in your choice to use Fullriver batteries for your energy solution, call your local Fullriver Battery Distributor and they would be happy to assist you in the final selection of your new Fullriver batteries.



[www.fullriverdcbattery.com](http://www.fullriverdcbattery.com)