

# Absorbed Power AGM Batteries

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## What is AGM Technology?

Originally developed in 1980 for military use, AGM is a totally sealed (no caps, but vented for over-charge situation), maintenance-free battery with the plates packed in micro-fibre mat. AGM technology is the next step in the evolution of both starting and deep cycle batteries for all of these applications. This 'next generation' technology delivers increased safety, performance and service life over all existing sealed batteries.

- Sealed and Maintenance-Free
- Fully compliant with Sealed Battery Requirements for ships, boats and yachts
- Excellent CCA
- Competitively Priced
- Guaranteed Longer Service Life than other Wet Cell and Gel Acid batteries
- Multi-Purpose Uses
- High Discharge Rate
- Long Shelf Life
- Fast Charging (up to 150 amps)

## How does it work?

As the electrolyte is captured within the micro-fibre mat, there is a much lower resistance within the battery, allowing a more efficient and faster reaction (acid migration) between the hydrogen from the negative and oxygen from the positive plates. This allows charge up to five times the rate of wet batteries.

Absorbed Power market a large range of innovative, high performance, high quality, but very competitively priced 6 and 12 volt products.

Absorbed Power offer 2 distinct ranges of batteries to suit differing applications and conditions:

The '**C**' series range of AGM Batteries are designed specifically to have a large amount of stored current discharge between charging sessions. With a heavy non-porous battery plate, a different active chemical paste material and a stronger electrolyte than normal batteries, the '**C**' range of batteries produce superior performance for high power output and excellent deep cycle applications.

The '**AG**' range of batteries uses the advanced GEL design which combines the best features of AGM and GEL construction into one battery line. The manufacturing processes use pure formed silica to create sulphuric acid thixotropic gel, which fill the battery. The battery is vacuum sealed to ensure full penetration of the electrolytic gel through the separators and the plates glass mats. This range of batteries are designed to meet the requirements of frequent cyclic and high temperature application.

Remember when comparing batteries and battery products, to compare apples verses apples. Batteries are not all the same and comparing the price of AGM verses other technology batteries (flooded wet cell, gel etc) will not give a true indication of the exceptional benefits to be gained from using AGM technologies.

### **Why AGM Batteries?**

Some great reasons ... to make the smart investment in Absorbed Power AGM Batteries:

**Maintenance-Free / Sealed AGM Batteries:** The valve regulated, spill-proof construction of the Absorbed Power AGM battery allows trouble-free, safe operation in any orientation. There is no need to 'top up' the electrolyte. They will also not corrode the battery surrounds.

**Economical:** Absorbed Power AGM batteries give by far the best "Bang for the Buck" due to their exceptional performance and longevity and at realistic prices.

**Long Service Life :** Under normal operating conditions, four or five years of dependable service life can be expected in stand-by and cycling applications. With quality charging and care not to over-charge, under-charge or over-discharge the batteries, even longer life can be expected. Perfect for both starting and deep cycle applications.

**Multi-Purpose Use :** Absorbed Power AGM batteries may be used in series and/or parallel to allow a choice of voltages and storage capacities and can be used in cyclic, starting or standby applications.

**High Discharge Rate:** Low internal resistance allows discharge currents of up to five times the rated capacity of the battery. High discharge rates make them ideal starting batteries.

**Long Shelf Life:** A fully charged Absorbed Power AGM battery will hold it's charge for long periods at room temperature before charging is required, due to its low self-discharge rate. This means no flat batteries after leaving them sitting for long periods.

**Fast Charging:** AGM batteries will allow charging at many times the maximum charge rate of standard batteries, meaning much quicker charge times.



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