

What is an AGM battery?

AGM, an acronym for Absorbent Glass Mat, is a major player in the ever-evolving battery industry. As the name simply suggests, this is not an ordinary wet-cell battery. The construction at the center of this battery technology and the electrochemical reactions occurring in its cells make it practical in a lot of different applications.

Why are AGM batteries a good choice?

First, the Absorbent Glass Mat (AGM) design allows for better electrolyte retention. This design uses glass mats to absorb and hold the electrolyte, reducing the electrolyte's movement within the battery. Consequently, this leads to lower internal resistance. Second, AGM batteries have a sealed construction.

What are the myths about AGM battery technology?

The main myths regarding AGM battery technology include: AGM batteries are maintenance-free and do not require any care. AGM batteries are completely safe and cannot leak or vent gas. AGM batteries have the same lifespan as conventional lead-acid batteries. AGM batteries are only suitable for certain applications.

Are AGM batteries maintenance-free?

Many users assume that "maintenance-free" means total neglect, leading to premature battery failure. According to a study by the Battery Council International (BCI) in 2021, half of the AGM batteries reported as dead were actually due to improper charging practices. The claim that AGM batteries cannot leak or vent gas is misleading.

How much does an AGM battery cost?

AGM batteries are typically more affordable upfront. For instance, a standard AGM battery may cost around \$150, while a comparable Lithium-Ion battery can range from \$500 to \$1,200. This price difference can influence consumer decisions, particularly for applications where budget constraints are a primary concern.

Why are AGM batteries thinner than flooded batteries?

In AGM batteries, the electrolyte is absorbed into the thin absorbent glass mat, which functions as a sponge. The lead plates are thinner in AGM batteries than in flooded lead-acid batteries. AGM batteries can use thinner lead plates because the glass mat separator keeps the plates from warping and buckling.

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Telecommunications Equipment. AGM batteries are often used to provide backup power for telecommunications equipment, such as cell towers and satellite systems. ...

Typical Applications of the Q-Batteries 12LCP-23 / 12V 23Ah lead-acid battery: Medical technology/rehab technology; Sailing and electric boats; Caravans / motor homes; Wind ...

AGM battery chargers are purpose-built devices designed to efficiently charge Absorbent Glass Mat (AGM) batteries, a type of sealed lead-acid battery known for its reliability and versatility. ...

AGM 2 is a new generation of Absorbed Glass Mat (AGM) battery technology, delivering twice the power and three times the life of conventional AGM and flooded lead acid ...

Equipment AGM EQ1000. Part number. EQ1000. Technology. AGM. EAN/GTIN. 3661024037471. Voltage. 12 V. Capacity. 120.0 Ah. Watt hour. 1000 Wh. Length. 286 mm. Width. 269 mm. ...

An Absorbed Glass Mat (AGM) battery is a type of lead-acid battery where electrolyte solution is absorbed in glass mat separators. These separators hold the acid in a ...

Quality-Batteries 12LCP-56 / 12V 56Ah lead-acid battery. The batteries of the Q-Batteries LC and LCP series with valve-regulated AGM technology (Absorbent Glass Mat) are specially ...

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