

Absorbent Glass Mat Battery Market Future Analysis - 2031

Absorbent Glass Mat (AGM) Battery Market is anticipated to hit USD 19.5 billion by 2031

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An Absorbent Glass Mat (AGM) battery is a type of lead-acid battery that utilizes a unique design to improve its performance and capabilities compared to traditional flooded lead-acid batteries. AGM batteries are

commonly used in various applications, including automotive, marine, recreational vehicles (RVs), uninterruptible power supply (UPS) systems, and renewable energy systems.

The [absorbent glass mat battery market](#) size was valued at \$11.6 billion in 2021, and absorbent glass mat industry is estimated to reach \$19.5 billion by 2031, growing at a CAGR of 5.4% from 2022 to 2031.

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AGM batteries are commonly used as starting batteries in modern cars due to their quick cranking ability and resistance to vibration. They are also used in high-performance vehicles and luxury cars.

The major companies profiled in absorbent glass mat (AGM) battery market report include Clarios, Exide Technologies, Universal Power Group, EnerSys, East Penn Manufacturing Company, Yusa Group, Flamm Energy Technology, Robert Bosch GmbH, Duracell, Johnson Controls, MK Battery, and Power Sonic Corporation.

AGM batteries are preferred in marine applications due to their resistance to spills, vibration, and shock. They are used as starting batteries for boat engines and as deep-cycle batteries for



Absorbent Glass Mat Battery

onboard electrical systems.

North America is expected to exhibit CAGR of 5.0% during 2022-2031.

AGM or Absorbent Glass Mat is an advanced lead-acid battery that provides superior power to support the higher electrical demands of today's vehicles and start-stop applications. It is widely used in the automotive, military, UPS, energy storage, and other industries.

Rapidly growing demand for power from clean energy resources, increase in the sales of automotive vehicles which are used for transportation and material handling purpose have driven the demand for AGM battery market.

Increase in penetration of cloud computing and virtualization in the daily life has led to increase in the demand for datacenters.

AGM batteries are maintenance free alternative to traditional flooded lead-acid batteries. Their AGM batteries are used for newly manufactured cars for start-stop technology in cars.

The advantages of technologies such as 5G, artificial intelligence, machine learning, data center construction, and others technologies related with telecommunications have huge impact over the market growth.

Growth in investment toward renewable energy sources such as solar and wind, has led to increase in the demand for energy storage devices, which led to increase in the demand for absorbent glass mat battery market.

Growing concerns toward energy security coupled with cost saving potential is expected to positively compliment the adoption of absorbent glass mat battery during the forecast period.

APAC is growing rapidly with the increasing adoption of energy storage solutions for industrial, automotive, and other applications. Also, renewable energy integration in countries such as India and China is an additional factor fueling the market growth in APAC.

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AGM batteries are used in off-grid and hybrid renewable energy systems, such as solar and wind power installations, to store excess energy for use when renewable sources are not available.

AGM batteries are used in RVs for both starting the engine and powering onboard appliances and electronics.

North America holds a significant market share in the said market. Increase in usage of automotive vehicles catering to all powering needs, presence of key market players in the U.S.,

and increase in installation of AGM batteries for renewable energy applications are the key factors driving the market in this region.

AGM batteries offer numerous advantages over traditional flooded lead-acid batteries, making them a popular choice in various applications where reliability, safety, and performance are essential. However, their cost is generally higher than flooded batteries, which is an important consideration when selecting the appropriate battery type for a specific application.

Marine applications such as powerboats, personal watercrafts, yachts and heavy marine house power primarily comprises AGM battery systems.

By voltage range, 2-4 volts was the leading segment in 2021.

By end-use, OEM segment occupies 65.3% of total absorbent glass mat battery market share in 2021.

By application, UPS segment has largest market share in 2021.

The outbreak of COVID-19 has adversely impacted the market in the first half of 2020 credited to the closure of manufacturing plants during the lockdown period. Due to social distancing and WFH norms across the world, the residential sector observed high installation demand for uninterrupted power source (UPS) systems.

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Post pandemic crisis, the government of various countries across the globe has invested in the renewable power generation such as solar power plant, which has increased the demand for absorbent glass mat battery through energy storage devices.

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