

# Global VRLA Batteries Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G7406BD2711CEN.html>

Date: January 2024

Pages: 97

Price: US\$ 3,480.00 (Single User License)

ID: G7406BD2711CEN

## Abstracts

According to our (Global Info Research) latest study, the global VRLA Batteries market size was valued at USD 4804.7 million in 2023 and is forecast to a readjusted size of USD 6090.3 million by 2030 with a CAGR of 3.4% during review period.

A VRLA battery, more commonly known as a sealed lead-acid (SLA), gel cell, or maintenance free battery, is a type of lead-acid rechargeable battery. Due to their construction, the Gel and AGM types of VRLA can be mounted in any orientation, and do not require constant maintenance. The term 'maintenance free' is a misnomer as VRLA batteries still require cleaning and regular functional testing. They are widely used in large portable electrical devices, off-grid power systems and similar roles, where large amounts of storage are needed at a lower cost than other low-maintenance technologies like lithium-ion.

There are three primary types of VRLA batteries, Sealed VR wet cell[citation needed], AGM and Gel. Gel cells add silica dust to the electrolyte, forming a thick putty-like gel. These are sometimes referred to as 'silicone batteries'. AGM (absorbed glass mat) batteries feature fiberglass mesh between the battery plates which serves to contain the electrolyte. Both designs offer advantages and disadvantages compared to conventional batteries and sealed VR wet cells, as well as each other.

There are many manufacturers to produce VRLA Batteries, such as Exide Technologies, GS Battery, Panasonic, Vision Battery, SBS Battery, Fiamm, MCA, Power-Sonic Europe, Southern Battery, etc. Exide Technologies is the biggest manufacturer of VRLA Batteries, with about 13% market shares.

Europe and North America are the two main production regions, they are also the main

consumption regions. More than 22% of the VRLA Batteries were consumed in Europe, and more than 23% of the VRLA Batteries were consumed in North America, in the future.

The Global Info Research report includes an overview of the development of the VRLA Batteries industry chain, the market status of Telecommunications Industry (Absorbed Glass Mat Battery, Gel Battery), Electricity Industry (Absorbed Glass Mat Battery, Gel Battery), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of VRLA Batteries.

Regionally, the report analyzes the VRLA Batteries markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global VRLA Batteries market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the VRLA Batteries market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the VRLA Batteries industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (GWh), revenue generated, and market share of different by Type (e.g., Absorbed Glass Mat Battery, Gel Battery).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the VRLA Batteries market.

**Regional Analysis:** The report involves examining the VRLA Batteries market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the VRLA Batteries market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to VRLA Batteries:

**Company Analysis:** Report covers individual VRLA Batteries manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards VRLA Batteries. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Telecommunications Industry, Electricity Industry).

**Technology Analysis:** Report covers specific technologies relevant to VRLA Batteries. It assesses the current state, advancements, and potential future developments in VRLA Batteries areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the VRLA Batteries market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

VRLA Batteries market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Absorbed Glass Mat Battery

Gel Battery

## Market segment by Application

Telecommunications Industry

Electricity Industry

UPS

Others

## Major players covered

Exide Technologies

GS Battery

Panasonic

Vision Battery

SBS Battery

Fiamm

MCA

Power-Sonic Europe

Southern Battery

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe VRLA Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of VRLA Batteries, with price, sales, revenue and global market share of VRLA Batteries from 2019 to 2024.

Chapter 3, the VRLA Batteries competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the VRLA Batteries breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and VRLA Batteries market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of VRLA Batteries.

Chapter 14 and 15, to describe VRLA Batteries sales channel, distributors, customers, research findings and conclusion.

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