

# **Retail Analytics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. Segmented By Component (Software Vs. Service), By Deployment Mode (Cloud Vs. On-Premises), By Application (Merchandising Analytics & Others), By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028**

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## **Abstracts**

Global Residential Lead Acid Battery Market has valued at USD 7.16 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 4.26% through 2028.

A lead-acid battery is a rechargeable energy storage device that stores electrical energy in the form of chemical energy. It is one of the oldest and most widely used types of batteries, known for its reliability and affordability. The fundamental components of a lead-acid battery include two lead-based electrodes, a sulfuric acid electrolyte, and a separator to prevent electrical short circuits. During charging, electrical energy is converted into chemical energy as lead dioxide forms on the positive electrode and sponge lead on the negative electrode. This chemical energy is stored for later use. When the battery discharges, the stored chemical energy is converted back into electrical energy, providing power to connected devices or systems. Lead-acid batteries are commonly used in a variety of applications, including automotive starting batteries, backup power systems, uninterruptible power supplies (UPS), and Residential machinery. While they are durable and offer high current output, they require periodic maintenance and careful disposal due to the presence of lead, a hazardous material.

## **Key Market Drivers**

### Growing Demand for Home Energy Storage Solutions:

The residential lead-acid battery market is experiencing robust growth due to the increasing demand for home energy storage solutions. This driver is primarily fuelled by several factors:

- a. **Energy Independence:** Homeowners are seeking ways to reduce their reliance on the grid and gain energy independence. Lead-acid batteries enable the storage of surplus energy generated from renewable sources like solar panels during sunny days. This stored energy can be used during the night or when the grid experiences disruptions.
- b. **Grid Resilience:** The need for grid resilience is becoming more apparent, especially in regions prone to extreme weather events and power outages. Lead-acid batteries provide a reliable backup power source for critical appliances and systems, ensuring that homes remain functional during blackouts.
- c. **Cost Savings:** As the cost of solar panels and battery storage systems continues to decrease, homeowners are motivated to invest in residential lead-acid batteries. These systems allow them to reduce their electricity bills by storing and using their own generated energy rather than relying solely on grid power.

### Expansion of Solar Photovoltaic (PV) Installations:

The residential lead-acid battery market is closely tied to the expansion of solar PV installations on residential rooftops. Here's how this driver contributes to market growth:

- a. **Increased Solar Adoption:** The growing awareness of climate change and the desire to reduce carbon footprints are driving homeowners to invest in solar PV systems. Lead-acid batteries complement these installations by enabling the storage of excess solar energy for later use.
- b. **Energy Shifting:** Solar PV systems often generate more energy than is immediately needed. Lead-acid batteries allow homeowners to shift surplus daytime solar energy to nighttime or cloudy days, optimizing self-consumption and reducing the need for grid electricity.

### Government Incentives and Policies:

Government incentives and policies play a crucial role in stimulating the residential lead-acid battery market:

- a. **Subsidies and Tax Credits:** Many governments offer subsidies, tax credits, or rebates to homeowners who invest in renewable energy systems, including solar panels and energy storage. These financial incentives make residential lead-acid battery systems more affordable and attractive.
- b. **Net Metering:** Net metering policies allow homeowners to sell excess energy from their solar PV systems back to the grid. Lead-acid batteries can enhance these benefits by storing surplus energy for later use, ensuring homeowners receive maximum compensation for their generated energy.

#### Advancements in Battery Technology:

Continuous advancements in lead-acid battery technology are driving market growth:

- a. **Enhanced Performance:** Modern lead-acid batteries are designed with improved performance characteristics, including higher energy density, faster charging, and longer cycle life. These advancements make residential lead-acid battery systems more efficient and reliable.
- b. **Smart Battery Management:** Integration of smart battery management systems allows homeowners to monitor and optimize the performance of their lead-acid battery systems. This enhances user experience and ensures efficient energy utilization.

#### Environmental Considerations and Recycling Efforts:

The environmentally conscious mindset of homeowners and the emphasis on responsible waste management are contributing to the residential lead-acid battery market:

- a. **Recycling Initiatives:** There is a growing focus on recycling lead-acid batteries to minimize environmental impact. Regulatory requirements and industry efforts to recycle lead-acid batteries safely are reassuring homeowners about the eco-friendliness of these systems.
- b. **Sustainable Energy Practices:** Many homeowners are adopting sustainable energy practices and are inclined to use lead-acid batteries for energy storage due to their

recyclability and relatively low environmental footprint compared to some other battery technologies.

In conclusion, the residential lead-acid battery market is being driven by the increasing demand for home energy storage solutions, the expansion of solar PV installations, supportive government incentives, technological advancements, and a growing emphasis on environmental responsibility. These drivers collectively contribute to the market's growth as more homeowners seek to optimize their energy consumption and gain energy independence.

### Government Policies are Likely to Propel the Market

#### Renewable Energy Incentives and Subsidies:

One of the most significant government policies driving the Residential Lead-Acid Battery market is the provision of incentives and subsidies for renewable energy adoption. These policies are typically aimed at promoting the installation of solar photovoltaic (PV) systems and associated energy storage solutions, including lead-acid batteries. Here's a closer look at how these incentives work:

**Investment Tax Credits (ITCs):** Many governments offer tax credits to homeowners who invest in renewable energy systems, such as solar panels and energy storage. These tax credits directly reduce the upfront cost of installing lead-acid battery systems, making them more affordable for residential consumers.

**Rebate Programs:** Some regions implement rebate programs that provide cash incentives to homeowners who install solar and storage systems. These rebates can significantly offset the cost of purchasing and installing residential lead-acid battery systems.

**Feed-In Tariffs (FiTs):** In regions with FiTs, homeowners with solar and battery systems can receive compensation for excess energy they feed back into the grid. Lead-acid batteries play a vital role in optimizing this process by storing surplus energy for later use and grid feed-in, which can result in financial benefits for homeowners.

**Net Metering:** Net metering policies allow homeowners to receive credits or compensation for excess energy generated by their solar PV systems. Lead-acid batteries enable homeowners to store excess energy during the day for use during the night, helping them maximize the benefits of net metering.

These renewable energy incentives and subsidies not only make residential lead-acid battery systems more affordable but also incentivize homeowners to adopt cleaner and more sustainable energy solutions.

#### Environmental Regulations and Recycling Mandates:

Government policies related to environmental protection and battery recycling have a significant impact on the Residential Lead-Acid Battery market. These policies are designed to ensure responsible disposal and recycling of lead-acid batteries and minimize their environmental impact. Key aspects include:

**Recycling Mandates:** Many governments require lead-acid battery manufacturers to establish and fund recycling programs. These programs ensure that used batteries are collected, transported, and recycled in an environmentally responsible manner, with a focus on recovering valuable materials like lead and plastic.

**Pollution Control:** Regulations limit emissions of lead and sulfuric acid from battery manufacturing facilities to protect air and water quality. Strict emissions controls and monitoring mechanisms help prevent pollution and its adverse effects on public health and the environment.

**Battery Labeling and Disposal:** Governments often mandate clear labeling and guidelines for the proper handling and disposal of lead-acid batteries. This includes instructions on recycling and safe disposal practices to prevent environmental contamination.

#### Energy Efficiency Standards:

Government policies focused on energy efficiency standards also influence the Residential Lead-Acid Battery market. These policies aim to improve the energy efficiency of various household appliances and systems, including energy storage solutions like lead-acid batteries. Key aspects include:

**Energy Star Certification:** Many governments support the Energy Star program, which certifies energy-efficient products, including residential lead-acid battery systems. Products that meet Energy Star requirements are more likely to be favoured by consumers looking to reduce their energy consumption and carbon footprint.

**Minimum Efficiency Standards:** Governments may establish minimum energy efficiency standards that products like lead-acid batteries must meet to be sold in the market. These standards drive manufacturers to produce more energy-efficient battery systems.

#### Consumer Protection and Safety Regulations:

Consumer protection and safety regulations are critical in ensuring that residential lead-acid battery systems are safe and reliable for homeowners. These policies encompass various aspects, including:

**Product Safety Standards:** Governments often set safety standards for residential battery systems, ensuring that they meet specific safety and performance criteria. Compliance with these standards is necessary for products to be legally sold.

**Installation and Maintenance Guidelines:** Regulations may establish guidelines for the proper installation and maintenance of lead-acid battery systems in residential settings. These guidelines help prevent accidents, fires, and other safety hazards associated with improper handling.

**Consumer Information Requirements:** Governments may require manufacturers to provide comprehensive information and documentation to consumers, including safety guidelines, maintenance instructions, and warranty terms. This ensures that homeowners are well-informed about the safe use and maintenance of their battery systems.

#### Grid Integration and Demand Response Programs:

Some governments promote the integration of residential battery systems, including lead-acid batteries, into the electrical grid to support demand response programs and grid stability. These policies help balance energy supply and demand and enhance the resilience of the grid. Key aspects include:

**Incentives for Grid Integration:** Governments may offer incentives to homeowners who participate in grid integration programs by allowing their battery systems to provide grid services during peak demand periods. This can include financial incentives or reduced electricity rates.

**Grid Compatibility Standards:** Regulations may establish standards and requirements for the seamless integration of residential battery systems with the electrical grid.

Compliance with these standards ensures that battery systems can safely and effectively support grid operations.

**Emergency Backup Support:** Some regions encourage homeowners to install residential battery systems, including lead-acid batteries, to provide emergency backup power to critical infrastructure during grid disruptions or natural disasters. Incentives or tax benefits may be offered to promote these installations.

In conclusion, government policies play a pivotal role in shaping the Residential Lead-Acid Battery market by influencing affordability, safety, environmental responsibility, and grid integration. These policies are essential for ensuring the sustainable growth of the residential energy storage sector and encouraging homeowners to adopt cleaner and more resilient energy solutions.

## Key Market Challenges

**Technological Advancements and Competition from Alternative Technologies:**

The Residential Lead-Acid Battery market faces a substantial challenge in keeping up with technological advancements and the competition posed by alternative energy storage technologies, particularly lithium-ion batteries and emerging advanced energy storage solutions. Here's an in-depth look at this challenge:

**Advancements in Lithium-Ion Batteries:** Lithium-ion batteries have gained significant attention and adoption due to their higher energy density, longer cycle life, and faster charging capabilities compared to traditional lead-acid batteries. These advantages make lithium-ion batteries highly attractive for residential energy storage applications.

**Energy Density and Space Limitations:** Lead-acid batteries are bulkier and heavier than lithium-ion batteries with similar energy storage capacity. This limits their suitability for applications where space is limited, such as in homes with constrained installation areas.

**Limited Depth of Discharge:** Lead-acid batteries are sensitive to deep discharges, which can negatively impact their lifespan. This limitation is particularly relevant in residential settings where consistent and deep cycling may be required.

**Emerging Technologies:** Emerging energy storage technologies, such as flow batteries, solid-state batteries, and alternative chemistries, offer unique advantages in terms of



scalability, safety, and efficiency. These technologies are undergoing rapid development and could pose further competition to traditional lead-acid batteries.

#### Environmental and Safety Concerns:

Environmental and safety concerns are another significant challenge faced by the Residential Lead-Acid Battery market. These concerns revolve around the environmental impact of lead-acid batteries throughout their lifecycle and the potential risks associated with their use. Let's delve deeper into this challenge:

**Lead Pollution and Recycling:** Lead-acid batteries contain lead, a toxic heavy metal that can pose health risks to humans and the environment if not handled and recycled properly. Despite recycling efforts, improper disposal or recycling of lead-acid batteries can result in lead pollution of soil and water bodies.

**Limited Environmental Friendliness:** Lead-acid batteries are less environmentally friendly compared to some alternative battery technologies. The use of lead and sulfuric acid in their manufacturing and recycling processes raises concerns about their ecological impact.

**Safety Precautions:** Lead-acid batteries emit explosive gases during charging and discharging, requiring proper ventilation and safety measures during installation and operation. Improper handling of these batteries can lead to accidents, fires, or even explosions.

**Public Perception and Acceptance:** The association of lead-acid batteries with lead pollution and potential safety risks can affect public perception and acceptance. This can impact the willingness of homeowners to adopt lead-acid battery systems, particularly in areas with stringent environmental regulations.

**Regulatory Compliance:** Governments impose strict regulations on the production, recycling, and disposal of lead-acid batteries to mitigate environmental and safety concerns. Complying with these regulations requires manufacturers to invest in sustainable production practices and recycling facilities.

Addressing the challenge of environmental and safety concerns requires the Residential Lead-Acid Battery market to invest in research and development to develop cleaner and safer battery technologies. Additionally, industry stakeholders must prioritize proper recycling practices and work towards educating the public about the benefits of



responsible battery disposal and recycling.

In conclusion, the Residential Lead-Acid Battery market grapples with challenges related to technological advancements, competition from alternative technologies, environmental impact, and safety considerations. Overcoming these challenges requires a combination of innovation, regulatory compliance, and public awareness efforts to ensure the sustainable growth of residential energy storage solutions.

## Segmental Insights

### Start Light & Ignition Insights

The Start Light & Ignition segment had the largest market share in 2022 and is expected to dominate the market during the forecast period. Light & Ignition Batteries are primarily designed to provide the initial burst of power required to start internal combustion engine-driven vehicles, including passenger cars, motorcycles, trucks, and other vehicles used in residential settings. Their role is crucial for ensuring that vehicles start reliably. In residential settings, Light & Ignition Batteries play a pivotal role in supporting the automotive needs of homeowners. They are typically installed in personal vehicles, ensuring that residents have reliable transportation for daily commuting, errands, and emergencies. These batteries are a fundamental component in residential garages, powering not only passenger cars but also recreational vehicles (RVs), motorcycles, and other motorized equipment used for leisure and utility purposes. Light & Ignition Batteries are known for their ability to deliver high cranking power in a short burst, allowing them to turn over the engine's starter motor effectively. This characteristic is crucial, especially in cold weather when engines require more power to start. They are designed to provide a rapid and powerful discharge of electrical energy, making them ideal for the immediate demands of engine starting.

Seasonal variations, such as cold winters, can significantly impact the performance of Light & Ignition Batteries in residential settings. Cold temperatures can reduce battery efficiency, making it more challenging to start vehicles. Many homeowners invest in cold-cranking amps (CCA) ratings for their Light & Ignition Batteries to ensure reliable vehicle starting during winter months.

### Valve Regulated Led Acid (VRLA) Batteries Insights

The Valve Regulated Led Acid (VRLA) Batteries segment had the largest market share in 2022 and is expected to dominate the market during the forecast period. VRLA

Batteries have found extensive use in residential settings due to their versatility. They are employed in various applications to meet the backup power needs and energy storage requirements of homeowners. One of the primary applications of VRLA Batteries in residential settings is as backup power solutions. Homeowners rely on these batteries to provide uninterrupted power during electrical grid outages, ensuring that essential appliances and systems remain operational. VRLA Batteries are commonly integrated into uninterruptible power supply (UPS) systems, which automatically switch to battery power when grid power is disrupted. This is critical for safeguarding sensitive electronics and maintaining productivity during blackouts. With the increasing adoption of residential solar photovoltaic (PV) systems, VRLA Batteries play a crucial role in storing excess energy generated by these systems. Homeowners can store surplus solar energy during the day and utilize it during the night or when grid power is unavailable. VRLA Batteries support energy independence by allowing homeowners to reduce their reliance on the grid and optimize self-consumption of clean, renewable energy.

VRLA Batteries are commonly integrated into emergency lighting systems and residential security systems. They ensure that emergency lights remain functional and security devices, such as alarms and cameras, continue to operate during power outages. This is essential for maintaining safety and security within residential properties, providing peace of mind to homeowners.

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## Regional Insights

Asia Pacific is the largest market for residential lead acid batteries, accounting for over 40% of the market share in 2022. The growth of the market in Asia Pacific is attributed to the growing demand for lead acid batteries in China and India. China is the largest market for residential lead acid batteries in Asia Pacific.

North America is the second largest market for residential lead acid batteries, accounting for over 25% of the market share in 2022. The growth of the market in North America is attributed to the growing demand for lead acid batteries in the United States and Canada. The United States is the largest market for residential lead acid batteries in North America.

Europe is the third largest market for residential lead acid batteries, accounting for over 20% of the market share in 2022. The growth of the market in Europe is attributed to the

growing demand for lead acid batteries in Germany, France, and the United Kingdom. Germany is the largest market for residential lead acid batteries in Europe.

### Key Market Players

EnerSys

Stryten Energy LLC

GS Yuasa Corporation

East Penn Manufacturing Co. (US)

Johnson Controls International PLC

C&D Technologies Inc

Crown Battery Manufacturing Co.

Hoppecke AG

NorthStar Battery Company

Saft Groupe

### Report Scope:

In this report, the Global Residential Lead Acid Battery Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Residential Lead Acid Battery Market, By Product:

Stationary

Motive

Start Light & Ignition Batteries (SLI)

## Residential Lead Acid Battery Market, By Construction Method:

Flooded

Valve Regulated Lead Acid (VRLA) Batteries

## Residential Lead Acid Battery Market, By Sales Channel:

Original Equipment Market (OEM)

Aftermarket

## Residential Lead Acid Battery Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Residential Lead Acid Battery market.

## Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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  - 15.5.4. Key Personnel
  - 15.5.5. Key Product/Services Offered
- 15.6. SAS Institute Inc.
  - 15.6.1. Business Overview
  - 15.6.2. Key Revenue and Financials
  - 15.6.3. Recent Developments
  - 15.6.4. Key Personnel
  - 15.6.5. Key Product/Services Offered
- 15.7. Qlik Technologies Inc.
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel
  - 15.7.5. Key Product/Services Offered
- 15.8. Tableau Software LLC (a Salesforce Company)

- 15.8.1. Business Overview
- 15.8.2. Key Revenue and Financials
- 15.8.3. Recent Developments
- 15.8.4. Key Personnel
- 15.8.5. Key Product/Services Offered
- 15.9. Teradata Corporation
  - 15.9.1. Business Overview
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  - 15.9.5. Key Product/Services Offered
- 15.10. MicroStrategy Incorporated
  - 15.10.1. Business Overview
  - 15.10.2. Key Revenue and Financials
  - 15.10.3. Recent Developments
  - 15.10.4. Key Personnel
  - 15.10.5. Key Product/Services Offered
- 15.11. HCL Technologies Limited
  - 15.11.1. Business Overview
  - 15.11.2. Key Revenue and Financials
  - 15.11.3. Recent Developments
  - 15.11.4. Key Personnel
  - 15.11.5. Key Product/Services Offered
- 15.12. Domo Inc.
  - 15.12.1. Business Overview
  - 15.12.2. Key Revenue and Financials
  - 15.12.3. Recent Developments
  - 15.12.4. Key Personnel
  - 15.12.5. Key Product/Services Offered
- 15.13. Information Builders Inc.
  - 15.13.1. Business Overview
  - 15.13.2. Key Revenue and Financials
  - 15.13.3. Recent Developments
  - 15.13.4. Key Personnel
  - 15.13.5. Key Product/Services Offered

## **16. STRATEGIC RECOMMENDATIONS**

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