+357 96 030922
info@marketpublishers.com

Deep Cycle Battery Market Forecasts to 2032 – Global Analysis By Type (Flooded Batteries, Gel Batteries, Absorbed Glass Mat (AGM) Batteries, Lithium-ion Batteries and Other Types), Voltage, Application, End User and By Geography

https://marketpublishers.com/r/DDB25ED69ADDEN.html
Date: April 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: DDB25ED69ADDEN

Abstracts

According to Stratistics MRC, the Global Deep Cycle Battery Market is accounted for $2.7 billion in 2025 and is expected to reach $5.2 billion by 2032 growing at a CAGR of 9.9% during the forecast period. A deep cycle battery is a type of rechargeable battery designed to provide a steady amount of power over a long period and to be regularly deeply discharged using most of its capacity. Unlike starter batteries, which deliver short bursts of high current to start engines, deep cycle batteries are built with thicker plates and denser active material to withstand repeated discharge and recharge cycles. They are commonly used in applications such as solar energy systems, golf carts, marine equipment, and RVs. Deep cycle batteries offer durability, reliability, and longer service life in demanding energy storage and power delivery applications.

According to the International Energy Agency, in 2022, over 700 million people worldwide did not have access to electricity, and a large majority of them resided in Sub-Saharan Africa.

Market Dynamics:

Driver:

Growing Demand for Renewable Energy Storage

The surging demand for renewable energy storage is significantly propelling the deep

+357 96 030922
info@marketpublishers.com

cycle battery market. As solar and wind power adoption accelerates, the need for reliable energy storage solutions becomes paramount. Deep cycle batteries, known for their durability and efficiency, are essential in storing intermittent renewable energy, ensuring a consistent power supply. This trend is further amplified by global initiatives promoting clean energy and off-grid solutions, positioning deep cycle batteries as a cornerstone in the transition towards sustainable energy systems.

Restraint:

High Initial Cost of Advanced Batteries

The high initial cost of advanced batteries significantly hinders the growth of the deep cycle battery market. Many consumers and businesses face financial barriers when investing in these expensive batteries, which limits adoption despite their long-term benefits. The upfront cost outweighs the perceived value for certain applications, slowing market penetration and reducing demand. As a result, the high initial cost becomes a major obstacle to wider adoption and growth.

Opportunity:

Advancements in Battery Technology

Advancements in battery technology are significantly driving the deep cycle battery market by enhancing energy density, lifespan, and charging efficiency. Innovations such as lithium-ion and AGM technologies offer superior performance, making deep cycle batteries more reliable and cost-effective for applications in renewable energy, electric vehicles, and marine systems. These improvements reduce maintenance needs and increase operational efficiency, encouraging wider adoption. As technology evolves, it fuels market growth by meeting rising energy storage demands and supporting the global shift toward sustainable power solutions.

Threat:

Safety Concerns

Safety concerns have a detrimental and distorting effect on the deep cycle battery business. Concerns regarding the safety and dependability of some battery types, such as lead-acid or lithium-ion, are raised by problems including overheating, leaking, and the possibility of explosion. Adoption is hampered by these issues, especially in delicate

+357 96 030922
info@marketpublishers.com

applications like renewable energy storage and electric cars. Strict laws and the requirement for sophisticated safety features can raise prices and impede industry expansion.

Covid-19 Impact

The COVID-19 pandemic significantly disrupted the deep cycle battery market, causing supply chain interruptions and manufacturing delays. Lockdowns and restrictions led to raw material shortages and halted production, affecting sectors like renewable energy and electric vehicles. However, the crisis also highlighted the importance of reliable energy storage, boosting demand in critical areas such as healthcare and telecom infrastructure. This shift underscored the need for localized manufacturing and innovation in battery technologies.

The gel batteries segment is expected to be the largest during the forecast period

The gel batteries segment is expected to account for the largest market share during the forecast period, because their spill-proof design and low maintenance needs make them ideal for renewable energy systems, mobility devices, and off-grid solutions. With increasing adoption in solar and wind power storage, gel batteries are driving sustainable energy initiatives. Their reliability and deep discharge capabilities contribute to growing consumer preference, significantly boosting market demand and shaping the future of deep cycle battery technologies.

The marine segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the marine segment is predicted to witness the highest growth rate, due to increasing demand for reliable, long-lasting power sources in boats, yachts, and other marine vessels. Deep cycle batteries are ideal for powering onboard electronics, trolling motors, and navigation systems, offering superior durability and deep discharge capabilities. As recreational boating and maritime transport expand globally, especially with the shift toward electric and hybrid marine applications, the need for efficient energy storage solutions continues to fuel growth in this segment.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to advancements in renewable energy storage, electric mobility, and off-grid power solutions. Its growth supports sustainable development, reduces carbon

+357 96 030922
info@marketpublishers.com

emissions, and enhances energy security across both urban and rural areas. The market fosters innovation and infrastructure development while generating employment and investment opportunities. As demand for clean energy rises, deep cycle batteries play a critical role in enabling a greener, more resilient future for the Asia-Pacific region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to growth of renewable energy and electric vehicle sectors. As demand for sustainable energy solutions increases, deep cycle batteries play a crucial role in energy storage, offering reliable power for solar systems and electric grids. This shift towards green energy fuels technological advancements, job creation, and infrastructure development in the region, enhancing North America's transition to cleaner, more efficient energy solutions and driving economic growth.

Key players in the market

Some of the key players profiled in the Deep Cycle Battery Market include Exide Technologies, Trojan Battery Company, East Penn Manufacturing, EnerSys, Johnson Controls, Crown Battery, U.S. Battery Manufacturing, Amara Raja Batteries LtdGS Yuasa Corporation, Leoch International Technology, RELiON Battery, Narada Power Source, HOPPECKE Batteries, Discover Battery, VARTA AG, Luminous Power Technologies, Saft Groupe S.A. and Panasonic Corporation.

Key Developments:

In January 2025, Panasonic unveiled an innovative new energy efficient approach to heating, ventilation, and air conditioning (HVAC) that uses significantly less energy than conventional technologies.

In December 2024, Panasonic announced the launch of its BalancedHome Elite and Elite Plus Series of Energy Recovery Ventilators (ERV). Available in top and side port configurations and compliant with major building codes, the new BalancedHome series ERVs are versatile and efficient, giving builders the flexibility to choose between eight different models with four different CFM levels.

In November 2024, Panasonic and Arm announced a strategic partnership aimed at standardizing automotive architecture for Software-Defined Vehicles (SDVs).

+357 96 030922
info@marketpublishers.com

Types Covered:

- Flooded Batteries
- Gel Batteries
- Absorbed Glass Mat (AGM) Batteries
- Lithium-ion Batteries
- Other Types

Voltages Covered:

- Less than 12V
- 12V
- 24V
- 48V & Above

Applications Covered:

- Renewable Energy Systems
- Automotive
- Leisure and Camping
- Marine
- Telecom
- Mobility Equipment
- Off Grid Power

+357 96 030922
info@marketpublishers.com

Other Applications

End Users Covered:

Residential

Commercial

Industrial

Utilities

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

+357 96 030922
info@marketpublishers.com

- Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

+357 96 030922
info@marketpublishers.com

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

5 GLOBAL DEEP CYCLE BATTERY MARKET, BY TYPE

6 GLOBAL DEEP CYCLE BATTERY MARKET, BY VOLTAGE

7 GLOBAL DEEP CYCLE BATTERY MARKET, BY APPLICATION

8 GLOBAL DEEP CYCLE BATTERY MARKET, BY END USER

9 GLOBAL DEEP CYCLE BATTERY MARKET, BY GEOGRAPHY

+357 96 030922
info@marketpublishers.com

10 KEY DEVELOPMENTS

+357 96 030922
info@marketpublishers.com

11 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Note: Tables for North America, Europe, APAC, South America, and Middle East &

+357 96 030922
info@marketpublishers.com

Africa Regions are also represented in the same manner as above.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Deep Cycle Battery Market Forecasts to 2032 – Global Analysis By Type (Flooded Batteries, Gel Batteries, Absorbed Glass Mat (AGM) Batteries, Lithium-ion Batteries and Other Types), Voltage, Application, End User and By Geography

Product link: https://marketpublishers.com/r/DDB25ED69ADDEN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/DDB25ED69ADDEN.html