

# Global Battery E-commerce - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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## Abstracts

The Global Battery E-commerce Market size is estimated at USD 18.72 billion in 2024, and is expected to reach USD 30.17 billion by 2029, growing at a CAGR of 10% during the forecast period (2024-2029).

### Key Highlights

Over the medium term, increasing internet penetration across major regions, such as North America, Europe, and Asia-Pacific, is expected to drive the market.

On the other hand, increasing retail outlets across the major cities in developing countries are expected to restrain market growth.

Nevertheless, with the advent of e-mobility, the role of batteries has captured the function of traditional internal combustion, which has expanded opportunities for the sales of automotive batteries.

North America is expected to dominate the battery e-commerce market. With growing automobile battery manufacturing companies, suppliers, traders, and other online platforms are extending the sale of batteries either through their own websites or digital platforms such as Amazon, Mybatteryshop, Tyresmore, etc.

### Global Battery E-commerce Market Trends

The Lithium-Ion Battery Segment is Expected to Dominate the Market

In the early years of the lithium-ion battery industry, the consumer electronics sector was the major consumer. However, in recent years, electric vehicle (EV) manufacturers have become the biggest consumers of lithium-ion batteries, owing to the growing sales of electric vehicles. With the growing number of EVs, various countries such as the United States, Germany, China, and India have witnessed increased penetration of batteries through online mode.

Battery-electric vehicle sales reached an estimated 9.5 million in 2023, up from around 7.3 million in 2022. Also, EVs do not emit CO<sub>2</sub>, NO<sub>x</sub>, or any other greenhouse gases and, hence, have a lower environmental impact compared to conventional internal combustion engine (ICE) vehicles. Due to this advantage, many countries are encouraging the use of EVs by introducing subsidies and government programs. This will, in turn, create avenues for the promotion of the battery e-commerce market.

Several countries have announced plans to ban the sales of ICE vehicles in the future. Norway announced plans to ban the sales of ICE vehicles by 2025, France by 2040, and the United Kingdom by 2050. India also has plans to phase out ICE engines by 2030, while China's similar plan is currently under the relevant research phase. The ban on ICE vehicles will create avenues for the adoption of electric vehicles and further boost the market's growth.

A significant portion of the Asia-Pacific and African populations is estimated to live without access to electricity and depend on conventional fuels, such as kerosene and diesel, for their lighting and mobile phone charging needs. Lithium-ion battery integrated energy storage solutions are likely to witness an increasing adoption rate due to the technical benefits associated with it and declining lithium-ion battery prices. This is expected to create a significant number of opportunities for online suppliers of Li-ion batteries in the near future.

Therefore, the lithium-ion battery segment is expected to dominate the battery e-commerce market during the forecast period.

### North America is Expected to Dominate the Market

The United States is one of the major hotspots for industrial batteries worldwide on account of robust industrial infrastructure, surging deployment of battery-based energy storage projects, and expansion in renewable power infrastructure. The growing

adoption of battery energy storage projects requires more lithium-ion batteries, which can potentially develop the battery e-commerce market. In 2023, the capacity of the battery manufacturing industry in the United States amounted to 177 gigawatt-hours.

To increase the adoption of clean energy systems and reduce GHG emissions, the country is increasing the deployment of solar and wind power installations, which need to be supported by energy storage systems.

In 2022, General Motors and Ford announced their targeted strategy to manufacture and sell EVs. General Motors declared its target to manufacture 30 EV models and set up a battery electric vehicle (BEV) production facility with a capacity of 1 million units in North America by 2025, along with carbon neutrality by 2040. In comparison, Ford announced its target to have one-third of sales be fully electric by 2026 and 50% by 2030, with all-electric sales in Europe by 2030. This will drive the need for lithium-ion batteries in North America, boosting the growth of the battery e-commerce market.

With the growing sales of electric vehicles, the demand for lithium-ion batteries in the automotive segment is expected to increase significantly during the forecast period. For instance, according to the International Energy Agency, the sales of electric vehicles in the United States and Canada grew by more than 38.04% between 2022 and 2023.

Therefore, North America is expected to dominate the global e-commerce market during the forecast period.

## Global Battery E-commerce Industry Overview

The global battery e-commerce market is moderately fragmented. Some of the key players include BatteryMart.com, BatteryJunction.Com, Amazon Inc., Panasonic Energy Co. Ltd, and Tesla Power USA LLC.

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## Contents

### **1 INTRODUCTION**

- 1.1 Scope of the Study
- 1.2 Market Definition
- 1.3 Study Assumptions

### **2 RESEARCH METHODOLOGY**

### **3 EXECUTIVE SUMMARY**

### **4 MARKET OVERVIEW**

- 4.1 Introduction
- 4.2 Market Size and Demand Forecast in USD billion, till 2029
- 4.3 Recent Trends and Developments
- 4.4 Government Policies and Regulations
- 4.5 Market Dynamics
  - 4.5.1 Drivers
    - 4.5.1.1 Increasing Internet Penetration Across the Major Regions
    - 4.5.1.2 Growing Usage of Lithium Ion Batteries
  - 4.5.2 Restraints
    - 4.5.2.1 Increasing Retail Outlets Across the Major Cities
- 4.6 Supply Chain Analysis
- 4.7 Porter's Analysis
  - 4.7.1 Bargaining Power of Suppliers
  - 4.7.2 Bargaining Power of Consumers
  - 4.7.3 Threat of New Entrants
  - 4.7.4 Threat of Substitutes Products and Services
  - 4.7.5 Intensity of Competitive Rivalry

### **5 MARKET SEGMENTATION**

- 5.1 Battery type
  - 5.1.1 Lead-acid
  - 5.1.2 Lithium-ion
  - 5.1.3 Other Battery Types
- 5.2 Geography

- 5.2.1 North America
  - 5.2.1.1 United States
  - 5.2.1.2 Canada
  - 5.2.1.3 Rest of North America
- 5.2.2 Asia-Pacific
  - 5.2.2.1 China
  - 5.2.2.2 India
  - 5.2.2.3 Indonesia
  - 5.2.2.4 Thailand
  - 5.2.2.5 Vietnam
  - 5.2.2.6 Malaysia
  - 5.2.2.7 Rest of Asia-Pacific
- 5.2.3 Europe
  - 5.2.3.1 United Kingdom
  - 5.2.3.2 Germany
  - 5.2.3.3 France
  - 5.2.3.4 Spain
  - 5.2.3.5 Nordic
  - 5.2.3.6 Russia
  - 5.2.3.7 Turkey
  - 5.2.3.8 Rest of Europe
- 5.2.4 Middle East and Africa
  - 5.2.4.1 Saudi Arabia
  - 5.2.4.2 United Arab Emirates
  - 5.2.4.3 Qatar
  - 5.2.4.4 Nigeria
  - 5.2.4.5 Egypt
  - 5.2.4.6 Rest of Middle East and Africa
- 5.2.5 South America
  - 5.2.5.1 Brazil
  - 5.2.5.2 Argentina
  - 5.2.5.3 Colombia
  - 5.2.5.4 Rest of South America

## **6 COMPETITIVE LANDSCAPE**

- 6.1 Mergers and Acquisitions, Joint Ventures, Collaborations, and Agreements
- 6.2 Strategies Adopted by Leading Players
- 6.3 Company Profiles

- 6.3.1 Battery Junction.com
- 6.3.2 BatteryMart.com
- 6.3.3 Amazon.com Inc.
- 6.3.4 Okaya Power Pvt. Ltd
- 6.3.5 Panasonic Energy Co. Ltd
- 6.3.6 Tesla Power USA LLC

## **7 MARKET RANKING/SHARE ANALYSIS\*\***

## **8 MARKET OPPORTUNITIES AND FUTURE TRENDS**

- 8.1 Increasing Automobile Battery Manufacturing Companies

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