

# Global PA66 Battery Cover Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global PA66 Battery Cover market size is expected to reach \$ 283 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

PA66 battery pack covers are protective structural components for new energy vehicle battery systems manufactured primarily from polyamide 66, glass fiber reinforced materials, and flame retardant modified engineering plastics through injection molding, in mold reinforcement, structural welding, and integrated thermal management processing technologies. These products are mainly applied in battery pack upper covers, localized structural lids, high voltage protection covers, module isolation covers, and lightweight battery system structural components. They provide high mechanical strength, heat resistance, flame retardancy, electrical insulation, and dimensional stability, enabling electric vehicle battery systems to meet requirements related to vibration resistance, thermal runaway protection, electromagnetic compatibility, and vehicle lightweighting. The current mainstream technology route is based on PA66GF30, PA66GF50, and flame retardant reinforced grades, while some products are evolving toward long fiber reinforcement, low warpage materials, and large scale integrated injection molded structures. Typical product thickness ranges from 2 mm to 6 mm, with continuous heat resistance exceeding 120 degrees Celsius. Flame retardant performance generally reaches UL94 V0 standards. The industry mainly serves new energy vehicles, battery systems, and automotive lightweighting supply chains. In 2025, the global PA66 battery pack cover industry recorded an average gross margin of approximately 18% to 27%, while the average industry selling price was around USD 40 per set.

The PA66 battery pack cover industry is entering a sustained growth phase driven by electric vehicle lightweighting, battery safety upgrades, and increasing structural

integration requirements. Upstream activities mainly involve PA66 resin production, glass fiber supply, flame retardant formulation, and engineering plastic modification systems, while demand for advanced materials continues to rise due to stricter requirements related to heat resistance, dimensional stability, and flame retardancy in electric vehicle battery systems. Midstream manufacturing is centered on injection molding, precision tooling development, and integrated structural component production, with the industry gradually shifting toward large scale integrated molding, automated manufacturing, and low warpage processing technologies. Downstream applications are primarily concentrated in electric vehicle battery systems, energy storage systems, and automotive lightweight structural components. Faster battery platform iteration cycles are accelerating product upgrades across the supply chain. Regulatory trends related to electric vehicle safety, thermal runaway protection, and carbon reduction targets are further supporting the penetration of high performance engineering plastics in battery pack structures. At the same time, industry expansion projects and capital investment activities remain active, with suppliers continuously increasing investments in automated injection molding facilities and large scale production bases to support the rapid growth of the new energy vehicle market.

The competitive landscape is gradually evolving from a regional supply structure toward higher market concentration and platform oriented supply systems. Companies with automotive grade certification capabilities, large scale structural molding expertise, and material co development capacity are increasingly favored by mainstream electric vehicle supply chains. As vehicle platforms become more standardized, battery structural components require higher levels of production consistency, reliability, and large volume delivery capability, resulting in rising technical and qualification barriers across the industry. Recent product development activity has focused on long fiber reinforced PA66 materials, low moisture absorption compounds, flame retardant reinforced systems, and highly integrated structural designs. Some manufacturers are also integrating thermal management, insulation protection, and electromagnetic shielding functions into battery cover structures in order to improve system level integration efficiency. Investment priorities are gradually shifting away from simple capacity expansion toward advanced material development and automated process upgrades. From a regional supply chain perspective, China remains the dominant global manufacturing and demand center, while Europe and North America are accelerating localization strategies to reduce supply chain risks and support domestic electric vehicle and battery manufacturing policies.

Over the next several years, the PA66 battery pack cover industry is expected to maintain strong growth momentum, although competition will increasingly focus on

material systems, structural engineering, and system integration capability rather than purely manufacturing scale. As electric vehicles continue evolving toward high voltage platforms, fast charging architectures, and higher energy density battery systems, demand for lightweight structural protection and advanced thermal management solutions is expected to increase significantly. This trend is driving PA66 battery pack covers from conventional protective lids toward multifunctional integrated structural components with enhanced safety and thermal performance. Midstream manufacturers are expected to continue expanding investments in large tonnage injection molding equipment, intelligent manufacturing systems, and automated assembly technologies to improve production efficiency and quality consistency. Meanwhile, regional supply chain migration is accelerating, with Southeast Asia, Europe, and North America gradually establishing localized production networks to support global electric vehicle manufacturing expansion. Industry growth will continue to be supported by electric vehicle policies, battery safety regulations, and low carbon manufacturing requirements, while recyclable engineering plastics and high performance flame retardant material systems are expected to become important future development directions for the industry.

This report studies the global PA66 Battery Cover production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PA66 Battery Cover and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PA66 Battery Cover that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PA66 Battery Cover total production and demand, 2021-2032, (Units)

Global PA66 Battery Cover total production value, 2021-2032, (USD Million)

Global PA66 Battery Cover production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PA66 Battery Cover consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PA66 Battery Cover domestic production, consumption, key domestic manufacturers and share

Global PA66 Battery Cover production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global PA66 Battery Cover production by Type, production, value, CAGR, 2021-2032,

(USD Million) & (Units)

Global PA66 Battery Cover production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PA66 Battery Cover market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Huapu (Huangshan) New Energy Technology, Jiangsu Boan New Materials, Shenzhen Xinchun New Energy Technology, Wujiang Longying Precision Industry, Jiangsu Rixin New Materials, Zhejiang SMTPC New Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PA66 Battery Cover market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PA66 Battery Cover Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global PA66 Battery Cover Market, Segmentation by Type:

Structural Protection Type

Electrical Insulation Type

Thermal Insulation Type

Electromagnetic Shielding Type

Lightweight Integrated Type

Others

### Global PA66 Battery Cover Market, Segmentation by Process:

Injection Molding

Integrated Large Scale Molding

Structural Welding Assembly

In Mold Reinforcement Process

Others

### Global PA66 Battery Cover Market, Segmentation by Material System:

Standard PA66

Glass Fiber Reinforced PA66

Flame Retardant PA66

Recyclable Low Carbon PA66

Others

Global PA66 Battery Cover Market, Segmentation by Application:

Battery Pack Upper Cover (Top Cover)

Battery Pack Lower Tray / Housing

Module Cover (Module Endplate / Top Cover)

Integrated Battery Case (Cell-to-Pack / Cell-to-Chassis)

Others

Companies Profiled:

Huapu (Huangshan) New Energy Technology

Jiangsu Boan New Materials

Shenzhen Xincheng New Energy Technology

Wujiang Longying Precision Industry

Jiangsu Rixin New Materials

Zhejiang SMTPC New Energy

Key Questions Answered:

1. How big is the global PA66 Battery Cover market?
2. What is the demand of the global PA66 Battery Cover market?

3. What is the year over year growth of the global PA66 Battery Cover market?
4. What is the production and production value of the global PA66 Battery Cover market?
5. Who are the key producers in the global PA66 Battery Cover market?
6. What are the growth factors driving the market demand?

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