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Global New Energy Battery Tray Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global New Energy Battery Tray market size is expected to reach $ 1868 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

In 2025, global sales of New Energy Battery Tray reached approximately 4.70 million units, with an average market price of about USD 229.79 unit, an annual production capacity of roughly 6.8 million units, and an industry-average gross margin of approximately 20%.

New Energy Battery Tray is structural components used in stationary electrochemical energy storage systems to support, locate, seal, and protect battery modules or battery packs. They are typically positioned at the bottom of the battery pack or integrated into the lower enclosure, working together with covers, frames, cross members, mounting lugs, sealing systems, insulation parts, cooling plates, and coolant channels to form the mechanical and thermal foundation of an ESS battery pack. These products are commonly manufactured through aluminum extrusion and welding, low-pressure casting, die casting, sheet metal fabrication, CNC machining, friction stir welding, MIG welding, laser welding, surface anodizing, coating, and air-tightness testing. Key performance requirements include structural rigidity, dimensional accuracy, load-bearing capacity, IP-rated sealing, corrosion resistance, electrical insulation, thermal uniformity, coolant leakage prevention, and pack-level assembly compatibility. As commercial and industrial storage, utility-scale BESS, energy storage cabinets, containerized energy storage systems, and data-center backup storage move toward higher energy density, liquid cooling, and larger-format battery packs, ESS battery trays are evolving from basic load-bearing parts into integrated functional components combining structural support, thermal management, sealing protection, and standardized assembly interfaces.

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Based on our research, New Energy Battery Tray should be treated as a functional structural component market rather than a generic metal tray market. The correct statistical boundary is centered on pack-level load bearing, sealing, protection, assembly interface, and thermal-management integration. Complete BESS containers, energy storage cabinets, cells, battery packs, BMS, PCS, EMS, and standalone cold plates should be separated from the tray revenue model. From a product-route perspective, earlier ESS pack designs could rely on simpler sheet-metal housings or mechanical support frames. However, as stationary storage systems adopt larger LFP cells, higher energy density, liquid cooling, and standardized 48S/52S/104S pack configurations, the tray and lower enclosure are required to provide higher rigidity, stronger sealing, better insulation, improved thermal uniformity, and more reliable coolant-channel integration. As a result, aluminum extrusion plus friction stir welding, wide and thin extruded plates, integrated liquid-cooled lower housings, low-pressure casting, precision machining, and IP-rated sealing are becoming mainstream manufacturing directions for higher-value products.

From the supply side, confirmed manufacturers with direct ESS battery tray evidence are concentrated in China. The Chinese supplier base benefits from a dense industrial chain covering aluminum casting and extrusion, tooling, welding, CNC machining, surface treatment, air-tightness testing, thermal-management components, and close cooperation with battery pack and ESS integrators. Guangdong, Anhui, Jiangsu, Fujian, Zhejiang, and several other provinces have become the most visible supply clusters. In North America and Europe, the market is more fragmented and often represented by custom sheet-metal fabricators, aluminum extrusion suppliers, EV battery enclosure specialists, and energy equipment fabricators. Many of these companies have relevant capabilities, but direct official evidence for ESS battery trays remains limited; therefore, they are more appropriately retained in the extended longlist or watchlist instead of being forced into the core formal list. This layered approach is necessary because the broader battery enclosure industry is much larger than the narrow ESS tray market.

From the demand side, the main growth drivers are commercial and industrial ESS cabinets, utility-scale liquid-cooled BESS, containerized energy storage systems, and standardized pack platforms used in generation-side, grid-side, and user-side applications. Global battery storage deployment remained strong in 2025, while China and the United States both showed significant incremental storage demand. This supports continued demand for pack housings, liquid-cooled lower enclosures, and tray structures. Nevertheless, the revenue growth of ESS battery trays will not fully match the growth rate of downstream GWh shipments, because standardization, competitive

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bidding, and cost-down pressure will continue to reduce average selling prices. Higher-value opportunities will come from liquid-cooled trays, large-cell compatible lower housings, high IP-rating products, overseas certification requirements, and localized supply chains for non-China markets.

The competitive landscape is being reshaped by two groups of entrants. The first group consists of EV battery tray and automotive lightweighting companies moving into ESS pack housings by leveraging existing aluminum welding, extrusion, casting, and customer co-development capabilities. The second group consists of thermal-management, liquid-cooling, and aluminum-profile suppliers upgrading from cold plates or profiles to integrated liquid-cooled lower boxes and pack-level housings. Recent capacity expansion, customer nominations, and acquisition-driven product extension indicate that ESS battery trays are becoming a more independent and investable niche within the energy storage supply chain. Future competition will depend less on basic fabrication cost alone and more on co-design capability, liquid-cooling integration, sealing reliability, yield control, international delivery capability, and the depth of relationships with leading battery and ESS system customers.

This report studies the global New Energy Battery Tray production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for New Energy Battery Tray 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 New Energy Battery Tray that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global New Energy Battery Tray total production and demand, 2021-2032, (K Units)
Global New Energy Battery Tray total production value, 2021-2032, (USD Million)
Global New Energy Battery Tray production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global New Energy Battery Tray consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: New Energy Battery Tray domestic production, consumption, key domestic manufacturers and share
Global New Energy Battery Tray production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global New Energy Battery Tray production by Type, production, value, CAGR,

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2021-2032, (USD Million) & (K Units)
Global New Energy Battery Tray production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global New Energy Battery Tray 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 Guangdong Hoshion Industrial Aluminium Co., Ltd., Guangdong Walmate Technology Co., Ltd., Anhui Xinbo Aluminum Co., Ltd., Yonz Technology Co., Ltd., Huada Automotive Technology, Changzhou Heatcreate, Fujian Xiangxin New Energy, Anhui Jiujiu Huali, XD Thermal, Nabaichuan 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 New Energy Battery Tray market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 New Energy Battery Tray Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global New Energy Battery Tray Market, Segmentation by Type:

Steel Battery Tray

Cast Aluminum Battery Tray

Extruded Aluminum Alloy Battery Tray

Global New Energy Battery Tray Market, Segmentation by Cooling Integration:

Non-cooled Structural Tray

Cold-plate Integrated Tray

Global New Energy Battery Tray Market, Segmentation by Battery Pack Configuration:

48S / 52S Pack Tray

104S and High-voltage Pack Tray

Others

Global New Energy Battery Tray Market, Segmentation by Application:

Commercial and Industrial ESS

Utility-scale BESS

Telecom and UPS Backup

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Others

Companies Profiled:

Guangdong Hoshion Industrial Aluminium Co., Ltd.

Guangdong Walmate Technology Co., Ltd.

Anhui Xinbo Aluminum Co., Ltd.

Yonz Technology Co., Ltd.

Huada Automotive Technology

Changzhou Heatcreate

Fujian Xiangxin New Energy

Anhui Jiujiu Huali

XD Thermal

Nabaichuan New Energy

Shenzhen Covalent

Cardinal MetalWorks

Anhui Shengxin Aluminium

Sichuan FURONG Technology

Key Questions Answered:
1. How big is the global New Energy Battery Tray market?
2. What is the demand of the global New Energy Battery Tray market?
3. What is the year over year growth of the global New Energy Battery Tray market?
4. What is the production and production value of the global New Energy Battery Tray

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market?
5. Who are the key producers in the global New Energy Battery Tray market?
6. What are the growth factors driving the market demand?

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Contents

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4 UNITED STATES VS CHINA VS REST OF THE WORLD

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5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY COOLING INTEGRATION

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List Of Tables

LIST OF TABLES

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Table 161. New Energy Battery Tray Typical Distributors

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List Of Figures

LIST OF FIGURES

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