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Global Air-cooled Battery Pack Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Air-cooled Battery Pack market size was valued at US$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Air-cooled battery packs are heat dissipation systems that use air as a cooling medium to reduce battery temperature through natural wind or forced ventilation (such as fans). Air cooling systems are divided into two forms: natural air cooling and forced air cooling. Natural air cooling relies on the airflow generated when the vehicle is driving, while forced air cooling actively promotes air flow through devices such as fans. The advantages of air-cooled battery packs include simple structure, low cost, easy maintenance, and no risk of liquid leakage. However, the disadvantages of air-cooled systems are relatively low cooling efficiency and high sealing requirements for battery packs to prevent the intrusion of dust and moisture. When designing air-cooled battery packs, factors such as the flow channel design inside the battery, the inlet and outlet structure, and the fluid parameters of the cooling air need to be considered to optimize the heat dissipation effect and the uniformity of the battery temperature. In addition, the air cooling system can be improved through optimization algorithms and strategies to improve its performance. With the development of electric vehicle technology, air-cooled battery packs may gradually fail to meet the heat dissipation needs of high-power and high-energy density batteries. Therefore, more efficient cooling technologies such as liquid cooling and direct cooling are becoming mainstream. Liquid cooling systems cool

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batteries through convective heat transfer of liquid media, while direct cooling systems use refrigerants to directly absorb and remove heat from the battery system. These technologies can provide more efficient cooling effects, especially for high-performance and high-energy-density battery systems.

This report is a detailed and comprehensive analysis for global Air-cooled Battery Pack market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Air-cooled Battery Pack market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Air-cooled Battery Pack market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Air-cooled Battery Pack market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Air-cooled Battery Pack market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Air-cooled Battery Pack

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Air-cooled Battery Pack market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung SDI, Gentherm, Great Power, Anhui Eikto Battery Co., Ltd., Camel Group Co., Ltd., Battero Tech, Trumonytechs, etc.

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

Market Segmentation

Air-cooled Battery Pack market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Modular

Centralized

Market segment by Application

Energy Storage

New Energy Vehicle

Others

Major players covered

Samsung SDI

Gentherm

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Great Power

Anhui Eikto Battery Co., Ltd.

Camel Group Co., Ltd.

Battero Tech

Trumonytechs

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Air-cooled Battery Pack product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Air-cooled Battery Pack, with price, sales quantity, revenue, and global market share of Air-cooled Battery Pack from 2020 to 2025.

Chapter 3, the Air-cooled Battery Pack competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

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Chapter 4, the Air-cooled Battery Pack breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Air-cooled Battery Pack market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Air-cooled Battery Pack.

Chapter 14 and 15, to describe Air-cooled Battery Pack sales channel, distributors, customers, research findings and conclusion.

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