

Global PHEV Cells Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PHEV Cells market size is expected to reach \$ 64390 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

Plug-in hybrid electric vehicle (PHEV) batteries are rechargeable batteries used in the powertrain systems of PHEVs. They are typically lithium-ion batteries, primarily providing the energy needed for pure electric driving, acceleration, regenerative braking, and engine-assisted propulsion. Compared to conventional PHEV batteries, PHEV batteries have a larger capacity and can be charged via external charging stations or household power, supporting a certain range of pure electric driving. Compared to pure electric vehicle (EV) batteries, their capacity is usually smaller, but they need to balance high power output, frequent charge/discharge cycles, cycle life, safety, low-temperature performance, and overall vehicle energy management efficiency. These batteries widely utilize technologies such as lithium iron phosphate (LFP) and ternary lithium batteries, and are crucial components for reducing fuel consumption, emissions, improving driving performance, and facilitating the transition from gasoline vehicles to pure electric vehicles. Global shipments are projected to reach 183.5 GWh by 2025.

The global plug-in hybrid electric vehicle (PHEV) battery market is experiencing rapid growth. As the new energy vehicle industry evolves from a single pure electric route to a multi-technology parallel development, PHEVs, with their advantages of flexible charging, lower range anxiety, lower overall fuel consumption, and strong adaptability to various usage scenarios, are maintaining rapid growth in China, Europe, and some emerging markets. Increased sales of PHEV models directly drive expanded battery installation demand, making PHEV batteries a fast-growing and highly flexible segment within the automotive power battery market.

From the demand side, PHEV passenger vehicles are the core application scenario, with SUVs, family sedans, commercial vehicles, and high-end hybrid models continuously driving increased battery demand. As consumers demand lower fuel consumption, longer range, lower operating costs, and easier charging, OEMs are constantly improving the pure electric range and battery capacity of PHEV models. In some markets, PHEV models can meet both short-distance pure electric commuting in cities and long-distance fuel charging needs, making them highly attractive in areas where charging infrastructure is not yet fully developed.

From a product structure perspective, plug-in hybrid electric vehicle (PHEV) batteries are upgrading towards higher capacity, higher power, longer lifespan, and higher safety. In the past, PHEV batteries had relatively small capacities, primarily meeting the needs of short-distance pure electric driving and energy recovery. In recent years, with the rapid development of long-range PHEV and range-extended electric vehicle technologies, the battery capacity per vehicle has significantly increased, placing higher demands on battery energy density, charge/discharge rate, cycle life, low-temperature performance, and thermal management capabilities. Lithium iron phosphate (LFP) batteries, with their advantages in cost, safety, and cycle life, are gaining a larger share in mainstream PHEV models; ternary lithium batteries, on the other hand, maintain a certain application space in high-end PHEVs and models with higher requirements for long range and lightweight design.

In terms of the industry chain, PHEV batteries are highly related to positive and negative electrode materials, electrolytes, separators, copper foil, aluminum foil, cell manufacturing, battery pack integration, BMS, thermal management systems, and vehicle energy management strategies. Because plug-in hybrid vehicles require efficient collaboration between the engine, motor, battery, and electronic control system, battery suppliers not only need to provide stable and reliable cells and battery packs, but also need to possess the capabilities for joint development with vehicle platforms, system adaptation, and safety verification. In the future, platform-based battery packs, fast-charging compatible designs, high-power output, and low-cost integration solutions will become key areas of competition in the industry.

From a regional market perspective, China is one of the markets with the most significant growth in plug-in hybrid electric vehicle (PHEV) batteries globally. The rapid increase in the sales volume of PHEVs and range-extended electric vehicles has significantly boosted the demand for lithium iron phosphate (LFP) batteries. In the European market, influenced by carbon emission regulations, corporate average emission targets, and new energy policies, PHEVs still have a certain demand base. In

the North American market, driven by demand for SUVs, pickup trucks, and long-distance travel, PHEVs have room for differentiated development. Emerging markets such as Southeast Asia, India, Latin America, and the Middle East have different development potential due to the ongoing development of charging infrastructure. In these markets, PHEVs are expected to become an important choice in the transition to vehicle electrification.

Looking ahead, the global plug-in hybrid electric vehicle (PHEV) battery market will continue to be driven by the combined effects of increased PHEV sales, improved pure electric range, stricter fuel economy regulations, diversified consumer demands, and vehicle platform upgrades. However, the industry also faces challenges such as the replacement of pure electric vehicles, policy adjustments, price competition, changes in technological approaches, and regional market differences. Companies with capabilities in developing high-safety battery cells, battery system integration, collaborative vehicle development, cost control, and customer certification will be in a more advantageous position in future competition.

This report studies the global PHEV Cells production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PHEV Cells 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 PHEV Cells that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PHEV Cells total production and demand, 2021-2032, (GWh)

Global PHEV Cells total production value, 2021-2032, (USD Million)

Global PHEV Cells production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GWh), (based on production site)

Global PHEV Cells consumption by region & country, CAGR, 2021-2032 & (GWh)

U.S. VS China: PHEV Cells domestic production, consumption, key domestic manufacturers and share

Global PHEV Cells production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GWh)

Global PHEV Cells production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

Global PHEV Cells production by Application, production, value, CAGR, 2021-2032,

(USD Million) & (GWh)

This report profiles key players in the global PHEV Cells 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 CATL, BYD, LG Energy Solution, Panasonic, Guoxuan High-tech, Samsung SDI, SK On, CALB Group, EVE Energy, Sunwoda, 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 PHEV Cells market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (GWh) and average price (US\$/KWh) 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 PHEV Cells Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PHEV Cells Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global PHEV Cells Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global PHEV Cells Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Global PHEV Cells Market, Segmentation by Application:

Passenger Car

Commercial Vehicles

Companies Profiled:

CATL

BYD

LG Energy Solution

Panasonic

Guoxuan High-tech

Samsung SDI

SK On

CALB Group

EVE Energy

Sunwoda

Farasis Energy

SVOLT Energy Technology

REPT BATTERO Energy

Tianjin EV Energies

Do-Fluoride New Materials

Inpai Battery

Cornex New Energy

Key Questions Answered:

1. How big is the global PHEV Cells market?
2. What is the demand of the global PHEV Cells market?
3. What is the year over year growth of the global PHEV Cells market?
4. What is the production and production value of the global PHEV Cells market?

5. Who are the key producers in the global PHEV Cells market?
6. What are the growth factors driving the market demand?

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