

Global Heavy-Duty EV Power Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Heavy-Duty EV Power Battery market size is expected to reach \$ 32889 million by 2032, rising at a market growth of 11.9% CAGR during the forecast period (2026-2032).

In 2025, global Heavy-Duty EV Power Battery production reached approximately 131.82 GWh, with an average global market price of around US\$110 per kWh.

The gross profit margin of major companies in the industry is between 18%-32%.

In 2025, the global production capacity of Heavy-Duty EV Power Battery was approximately 175.76 GWh.

Heavy-Duty EV Power Battery is a high-capacity battery system used in electric trucks, buses, construction vehicles, mining vehicles, port vehicles, and other heavy-duty electric platforms. It requires high cycle life, thermal safety, fast charging capability, vibration resistance, high energy throughput, and reliable battery management under demanding operating conditions.

The industrial chain of Heavy-Duty EV Power Battery covers upstream cathode materials, anode materials, electrolytes, separators, battery cells, structural parts, thermal management components, sensors, and battery management systems. The midstream consists of cell manufacturing, module assembly, pack integration, thermal design, safety validation, charging compatibility testing, and system certification. Downstream applications mainly include electric trucks, buses, logistics fleets, mining vehicles, construction machinery, port equipment, and heavy-duty commercial vehicle platforms.

This report studies the global Heavy-Duty EV Power Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heavy-Duty EV Power Battery 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 Heavy-Duty EV Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Heavy-Duty EV Power Battery total production and demand, 2021-2032, (KWh)

Global Heavy-Duty EV Power Battery total production value, 2021-2032, (USD Million)

Global Heavy-Duty EV Power Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Heavy-Duty EV Power Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Heavy-Duty EV Power Battery domestic production, consumption, key domestic manufacturers and share

Global Heavy-Duty EV Power Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Heavy-Duty EV Power Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Heavy-Duty EV Power Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Heavy-Duty EV Power Battery 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 LG Energy Solution, Samsung SDI, Panasonic, SK On, Forsee Power, Proterra, BorgWarner AKASOL, XALT Energy, Leoch Battery, Tesla, 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 Heavy-Duty EV Power Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) 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 Heavy-Duty EV Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heavy-Duty EV Power Battery Market, Segmentation by Type:

Lithium Iron Phosphate Battery

Nickel Manganese Cobalt Battery

Lithium Titanate Battery

Global Heavy-Duty EV Power Battery Market, Segmentation by Pack Structure:

Standard Module Battery Pack

Cell-to-Pack Battery Pack

Battery Swap Pack

Global Heavy-Duty EV Power Battery Market, Segmentation by Battery Capacity:

Small Capacity (<200kWh)

Medium Capacity (200-500kWh)

Large Capacity (>500kWh)

Global Heavy-Duty EV Power Battery Market, Segmentation by Application:

Electric Heavy Trucks

Electric Buses

Electric Construction Vehicles

Other

Companies Profiled:

LG Energy Solution

Samsung SDI

Panasonic

SK On

Forsee Power

Proterra

BorgWarner AKASOL

XALT Energy

Leoch Battery

Tesla

CTS

CATL

BYD

EVE Energy

CALB

Gotion High-Tech

Sunwoda

ERPT Battero

SVOLT

Envision AESC

Key Questions Answered:

1. How big is the global Heavy-Duty EV Power Battery market?
2. What is the demand of the global Heavy-Duty EV Power Battery market?
3. What is the year over year growth of the global Heavy-Duty EV Power Battery market?
4. What is the production and production value of the global Heavy-Duty EV Power Battery market?
5. Who are the key producers in the global Heavy-Duty EV Power Battery market?
6. What are the growth factors driving the market demand?

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