

Global Heavy-Duty Electric Truck Traction Battery Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Heavy-Duty Electric Truck Traction Battery Systems market size is expected to reach \$ 25229 million by 2032, rising at a market growth of 22.3% CAGR during the forecast period (2026-2032).

Heavy-duty electric truck traction battery systems are high-voltage battery packs and integrated battery systems designed for electric heavy-duty and medium-heavy freight vehicles, including tractor trucks, dump trucks, mining trucks, port drayage trucks, construction vehicles and other demanding commercial transport platforms.

The system typically integrates cells, modules or module-less structures, pack enclosures, battery management systems, high-voltage distribution, thermal management, insulation monitoring, safety protection, vehicle communication interfaces and, where applicable, battery swapping or high-power charging interfaces. The most relevant performance parameters include pack capacity, cycle life, fast-charging capability, thermal runaway mitigation, vibration resistance, low-temperature performance, vehicle platform compatibility and total cost of ownership.

Based on 2025 market assessment, mainstream system-level prices are generally estimated at USD 80–140/kWh, with customized low-volume European and North American systems potentially above this range.

According to our research, the heavy-duty electric truck traction battery system market should not be treated as a generic energy storage battery market. It is a vehicle propulsion battery system market built around the electrification of heavy-duty commercial transport. The appropriate statistical boundary should cover high-voltage

battery packs, battery management systems, thermal management, safety structures and vehicle integration interfaces used for traction power in heavy-duty and medium-heavy electric trucks. This boundary excludes complete vehicle revenue, stationary energy storage systems, low-voltage auxiliary batteries and general-purpose battery products. The industry's technical requirements are materially different from passenger EV batteries because heavy-duty trucks operate under high payload, long duty cycles, high charging frequency and strict total-cost-of-ownership constraints.

From the supply side, China has become the most concentrated global production base for heavy-duty truck battery systems. Chinese suppliers benefit from LFP cell scale, pack manufacturing capability, battery swapping deployment and rapid commercialization in mining, port, construction and short-haul freight applications. Leading and emerging suppliers include CATL, REPT BATTERO, EVE Energy, BYD/FinDreams Battery, CALB, SVOLT, Gotion High-tech, Sunwoda, Lishen and Farasis. European and North American companies are more concentrated in high-voltage system integration, fleet-specific engineering, special vehicles and off-highway applications, represented by BorgWarner, Microvast, Forsee Power, Accelera by Cummins, Leclanch?, ElectroVaya, BMZ and Kreisel Electric.

From the demand side, early adoption is structurally concentrated in use cases with predictable routes, centralized charging or swapping infrastructure and high daily utilization. Port drayage, mining, steel and cement transport, construction logistics, municipal heavy-duty vehicles and regional tractor-trailer operations are therefore more suitable for early electrification than fully flexible long-haul freight. Over time, improvements in battery cost, high-power charging, longer-cycle LFP systems and vehicle energy management will gradually broaden addressable demand. However, the industry will continue to face infrastructure constraints, payload trade-offs, residual value uncertainty and competition from hydrogen fuel cell solutions in selected long-haul and high-utilization routes.

This report studies the global Heavy-Duty Electric Truck Traction Battery Systems production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Heavy-Duty Electric Truck Traction Battery Systems total production and demand, 2021-2032, (MW)

Global Heavy-Duty Electric Truck Traction Battery Systems total production value, 2021-2032, (USD Million)

Global Heavy-Duty Electric Truck Traction Battery Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Heavy-Duty Electric Truck Traction Battery Systems consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Heavy-Duty Electric Truck Traction Battery Systems domestic production, consumption, key domestic manufacturers and share

Global Heavy-Duty Electric Truck Traction Battery Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Heavy-Duty Electric Truck Traction Battery Systems production by Battery System Architecture, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Heavy-Duty Electric Truck Traction Battery Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Heavy-Duty Electric Truck Traction Battery Systems 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, REPT BATTERO, EVE Energy, FinDreams Battery, CALB, SVOLT Energy, Gotion High-tech, Sunwoda, Lishen Battery, Farasis 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 Heavy-Duty Electric Truck Traction Battery Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KWh) by manufacturer, by Battery System Architecture, 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 Electric Truck Traction Battery Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heavy-Duty Electric Truck Traction Battery Systems Market, Segmentation by Battery System Architecture:

Fixed On-board Battery Pack

Swappable Battery System

Integrated Chassis Battery System

Other

Global Heavy-Duty Electric Truck Traction Battery Systems Market, Segmentation by Energy Replenishment Mode:

Depot Charging

High-power / Megawatt Charging

Battery Swapping

Mixed Charging and Swapping

Other

Global Heavy-Duty Electric Truck Traction Battery Systems Market, Segmentation by Battery Pack Capacity:

100–200 kWh Class

200–400 kWh Class

400–700 kWh Class

Above 700 kWh Class

Global Heavy-Duty Electric Truck Traction Battery Systems Market, Segmentation by Battery Chemistry:

LFP / LMFP

NMC / NCA

LTO

Other

Global Heavy-Duty Electric Truck Traction Battery Systems Market, Segmentation by Application:

Regional and Urban Freight

Port and Industrial Drayage

Mining and Construction Trucks

Long-haul Tractor Trucks

Other

Companies Profiled:

CATL

REPT BATTERO

EVE Energy

FinDreams Battery

CALB

SVOLT Energy

Gotion High-tech

Sunwoda

Lishen Battery

Farasis Energy

LG Energy Solution

BorgWarner

Microvast

Forsee Power

Accelera by Cummins

BMZ Holding

Kreisel Electric

Volvo Group battery business

Key Questions Answered:

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

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