

Global Heavy-Duty Electric Truck Traction Battery Systems Market Growth 2026-2032

<https://marketpublishers.com/r/GD21F67D950CEN.html>

Date: July 2026

Pages: 130

Price: US\$ 3,660.00 (Single User License)

ID: GD21F67D950CEN

Abstracts

The global Heavy-Duty Electric Truck Traction Battery Systems market size is predicted to grow from US\$ 5165 million in 2025 to US\$ 25666 million in 2032; it is expected to grow at a CAGR of 23.7% from 2026 to 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, Leclanché, 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.

LP Information, Inc. (LPI)'s newest research report, the "Heavy-Duty Electric Truck Traction Battery Systems Industry Forecast" looks at past sales and reviews total world Heavy-Duty Electric Truck Traction Battery Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Heavy-Duty Electric Truck Traction Battery Systems sales for 2026 through 2032. With Heavy-Duty Electric Truck Traction Battery Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Heavy-Duty Electric Truck Traction Battery Systems industry.

This Insight Report provides a comprehensive analysis of the global Heavy-Duty

Electric Truck Traction Battery Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Heavy-Duty Electric Truck Traction Battery Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Heavy-Duty Electric Truck Traction Battery Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heavy-Duty Electric Truck Traction Battery Systems and breaks down the forecast by Battery System Architecture, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Heavy-Duty Electric Truck Traction Battery Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Heavy-Duty Electric Truck Traction Battery Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Battery System Architecture:

Fixed On-board Battery Pack

Swappable Battery System

Integrated Chassis Battery System

Other

Segmentation by Energy Replenishment Mode:

Depot Charging

High-power / Megawatt Charging

Battery Swapping

Mixed Charging and Swapping

Other

Segmentation by Battery Pack Capacity:

100?200 kWh Class

200?400 kWh Class

400?700 kWh Class

Above 700 kWh Class

Segmentation by Battery Chemistry:

LFP / LMFP

NMC / NCA

LTO

Other

Segmentation by Application:

Regional and Urban Freight

Port and Industrial Drayage

Mining and Construction Trucks

Long-haul Tractor Trucks

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Heavy-Duty Electric Truck Traction Battery Systems market?

What factors are driving Heavy-Duty Electric Truck Traction Battery Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Heavy-Duty Electric Truck Traction Battery Systems market opportunities vary by end market size?

How does Heavy-Duty Electric Truck Traction Battery Systems break out by Battery System Architecture, by Application?

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