

# Global Carbon Zinc Manganese Battery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Carbon Zinc Manganese Battery market size is expected to reach \$ 1851 million by 2032, rising at a market growth of 2.1% CAGR during the forecast period (2026-2032).

A Carbon Zinc Manganese Battery, commonly referred to as a Carbon Zinc Battery or Zinc Carbon Battery, is a primary dry cell that uses a metallic zinc can as both the negative electrode and cell container, manganese dioxide blended with graphite or carbon black as the positive active material, a carbon rod as the positive current collector, and ammonium chloride, zinc chloride, or a blended chloride electrolyte. A cylindrical cell normally provides a nominal voltage of 1.5 V, while a 9 V battery consists of several flat cells connected in series. Depending on electrolyte formulation and performance level, the market primarily includes conventional Leclanché batteries, Heavy Duty zinc-chloride batteries, and Super Heavy Duty batteries intended for remote controls, clocks, radios, flashlights, toys, and other low-drain or intermittent-load devices. Energizer and FDK position these products as primary power sources for low-to-moderate drain applications and distinguish them from alkaline manganese batteries.

The upstream value chain comprises electrolytic or natural manganese dioxide, zinc sheet and zinc alloys, graphite, carbon black, carbon rods, ammonium chloride, zinc chloride, separator paper, steel and PVC jackets, sealing compounds, and packaging materials. Midstream manufacturing covers zinc-can drawing, cathode-mix filling, carbon-rod insertion, electrolyte dosing, sealing, jacketing, inspection, and packaging. Representative producers include Tiger Head Battery, Huatai Battery, Mustang Battery, GP Batteries, Energizer, FDK, and Eveready Industries India. Downstream products are distributed through branded battery companies, OEM and private-label buyers, wholesalers, modern retailers, e-commerce platforms, and hardware channels. Carbon

zinc batteries occupy a mature, high-volume and price-sensitive segment of the primary-battery value chain. Profitability depends mainly on procurement scale, manufacturing automation, yield control, branded distribution, Super Heavy Duty product mix, and OEM packaging services.

Global shipments of Carbon Zinc Manganese Batteries were approximately 26 billion cells in 2025, with a shipment-weighted FOB price of approximately US\$0.06 per cell and a manufacturing gross margin of approximately 14%-22%.

Low-cost primary power supplies still have a structural market.

While carbon-zinc-manganese batteries are no longer a high-growth technology, they remain a significant, high-volume, foundational product in the global primary battery system. Their core competitiveness lies not in energy density or high-rate performance, but in mature processes, extremely low procurement costs, no need for charging management, global distribution channels, and sufficiently stable discharge capabilities for low-power devices. In India, Southeast Asia, Africa, the Middle East, and Latin America, price-sensitive households, rural retail networks, emergency lighting, traditional radios, remote controls, wall clocks, and children's toys continue to generate stable demand. The continued commercial production by companies such as Tiger Battery, Huatai Battery, Wild Horse Battery, Eveready Industries India, FDK, and ABC Battery indicates that this market has not disappeared, but rather has shifted from a technology-driven market to one driven by cost, distribution channels, and supply chain efficiency.

Future opportunities lie primarily in product structure upgrades, rather than simply expanding the number of ordinary battery cells. Traditional paper-cased general-purpose products will continue to face price competition, with profit margins increasingly derived from zinc chloride formulations, Super Heavy Duty ratings, leak-proof structures, metal sleeves or high-barrier PVC tubing, extended shelf life, and private labeling and customized packaging for overseas retailers. For large manufacturers, the real barriers to entry lie in high-speed automated production lines, sourcing of manganese dioxide and zinc materials, consistency control of billions of products, leakage rate management, regional certification, and cross-border distribution capabilities. Companies with a portfolio of carbon-zinc, alkaline, and lithium primary and rechargeable batteries can also adjust their product mix according to regional consumer spending power and reduce sales costs through channel sharing.

Market risks stem from declining unit costs of alkaline batteries, the increasing prevalence of nickel-metal hydride rechargeable batteries, the migration of toys and

consumer electronics to built-in lithium batteries, and stricter EU battery regulations, extended producer responsibility, and hazardous substance management requirements. In developed markets, carbon-zinc batteries will further shrink to ultra-low power consumption, bundled with devices, emergency backup, and low-cost private label applications, while emerging markets will maintain significant demand. Industry competition will therefore exhibit a clear differentiation: small factories lacking scale and distribution channels will be squeezed out, while large manufacturers with automation, compliance capabilities, OEM responsiveness, and multi-chemical system combinations will have the opportunity to continue consolidating the market.

This report studies the global Carbon Zinc Manganese Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Zinc Manganese 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 Carbon Zinc Manganese Battery that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Carbon Zinc Manganese Battery total production and demand, 2021-2032, (K Units)

Global Carbon Zinc Manganese Battery total production value, 2021-2032, (USD Million)

Global Carbon Zinc Manganese Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Carbon Zinc Manganese Battery consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Zinc Manganese Battery domestic production, consumption, key domestic manufacturers and share

Global Carbon Zinc Manganese Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Carbon Zinc Manganese Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Carbon Zinc Manganese Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Zinc Manganese 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 Energizer Holdings, Inc., Panasonic Energy Co., Ltd., FDK Corporation, GP Batteries International Limited, VARTA AG, Eveready Industries India Limited, Indo National Limited, PT International Chemical Industry, SM Bixel Co., Ltd., Dry Cell and Storage Battery Joint Stock Company, 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 Carbon Zinc Manganese Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Carbon Zinc Manganese Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Carbon Zinc Manganese Battery Market, Segmentation by Type:

AA/R6

AAA/R03

C and D/R14 and R20

Others

### Global Carbon Zinc Manganese Battery Market, Segmentation by Performance Grade:

General Purpose

Heavy Duty

Super Heavy Duty

Others

### Global Carbon Zinc Manganese Battery Market, Segmentation by Electrochemical System:

Zinc Chloride

Leclanch?

Others

### Global Carbon Zinc Manganese Battery Market, Segmentation by Application:

Remote Controls and Clocks

Flashlights and Portable Lighting

Toys and Low-Drain Electronics

Others

Companies Profiled:

Energizer Holdings, Inc.

Panasonic Energy Co., Ltd.

FDK Corporation

GP Batteries International Limited

VARTA AG

Eveready Industries India Limited

Indo National Limited

PT International Chemical Industry

SM Bixel Co., Ltd.

Dry Cell and Storage Battery Joint Stock Company

Toshiba Lifestyle Products and Services Corporation

Guangzhou Tiger Head Battery Group Co., Ltd.

Shandong Huatai New Energy Battery Co., Ltd.

Zhongyin Ningbo Battery Co., Ltd.

Zhejiang Mustang Battery Co., Ltd.

Zhejiang Hengwei Battery Co., Ltd.

Guangdong Liwang New Energy Co., Ltd.

Shenzhen PKCELL Battery Co., Ltd.

Golden Power Group Holdings Limited

Dongguan Sunmol Battery Co., Ltd.

Guangdong Tianqiu Electronics Technology Co., Ltd.

Sichuan Changhong NewEnergy Technology Co., Ltd.

Fujian Nanping Nanfu Battery Co., Ltd.

Ningbo Yajin Electronic Technology Co., Ltd.

#### Key Questions Answered:

1. How big is the global Carbon Zinc Manganese Battery market?
2. What is the demand of the global Carbon Zinc Manganese Battery market?
3. What is the year over year growth of the global Carbon Zinc Manganese Battery market?
4. What is the production and production value of the global Carbon Zinc Manganese Battery market?
5. Who are the key producers in the global Carbon Zinc Manganese Battery market?
6. What are the growth factors driving the market demand?

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