

Single-Use Vape Battery Market Anticipated to Grow at 20% CAGR Through 2029: Industry Report

The Business Research Company's Single-Use Vape Battery Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- How Big Is The Single-Use Vape Battery Market In 2025?

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In recent times, the market size for single-use vape batteries has seen a phenomenal increase. The predictions suggest growth from \$13.13 billion in 2024 to \$15.80 billion in 2025, predicting a compound annual growth rate (CAGR) of 20.3%. The remarkable growth in the past is a result of

the growing demand for disposable vaping products that are easy to use, increased preference for vaping as a way to quit smoking, enhancements in technology contributing to battery efficiency, a surge in the production of compact and pre-charged vape batteries, alongside a rising consumer inclination towards vape devices that do not require maintenance.

In the upcoming years, the market size for single-use vape batteries is projected to experience significant growth, reaching \$32.74 billion in 2029 with a compound annual growth rate (CAGR) of 20.0%. This rise during the estimated

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period can be linked to a growing consumer interest in disposable vape devices, a rising acceptance of vaping as a less harmful alternative to smoking, an increasing preference for products that require no maintenance and are convenient, advancements in battery technology, and greater regulatory approval of vaping products for harm reduction. Major trends for this forecast period comprise advancements in battery energy capacity, the creation of AI-driven battery safety systems, innovations in environmentally friendly battery materials, evolutions in small, high-performance batteries, and the invention of rapid charging technologies for

disposable vapes.

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What Are The Key Driving Factors For The Growth Of The Single-Use Vape Battery Market?

The escalating growth of the single-use vape battery market is anticipated to be fueled by the broadening influence of e-commerce. This term speaks to the digital purchasing and selling of products and services, which offers consumers the convenience of shopping from anywhere, access to a vast range of products, and competitive price points. The prevalence of e-commerce is escalating due to factors such as increased internet usage, the rise of smartphone usage, and the preference of consumers for online shopping. As digital platforms provide a significant distribution avenue for vape devices and their accessories, single-use vape batteries stand to gain considerably from this trend. These platforms allow for a more extensive market penetration and direct access to consumers. For example, e-commerce sales in the second quarter of 2025, as reported by the Census Bureau, a US government entity, were approximated to be \$284.1 billion, making up 15.9% of total retail sales. This is an increase from \$269.5 billion, or 15.5% of total retail sales, in the second quarter of the previous year. As such, the continuing enlargement of the e-commerce sector is propelling the growth of the single-use vape battery market.

Who Are The Key Players In The Single-Use Vape Battery Industry?

Major players in the Single-Use Vape Battery Global Market Report 2025 include:

- Imperial Brands
- British American Tobacco (BAT)
- Altria Group Inc.
- Japan Tobacco International (JTI)
- Shenzhen Smoore Technology
- Wismec
- Riot Labs
- PAX Labs
- Keystone
- Innokin.

What Are The Top Trends In The Single-Use Vape Battery Industry?

[Key players in the single-use vape battery market](#) are investing in the development of superior batteries such as gel technology vape batteries. By offering improved safety, energy density, and performance, these batteries are boosting the growth of the market. Gel technology vape batteries are rechargeable batteries that are used in vaping devices and contain a gel electrolyte as an alternative to a liquid or solid-state electrolyte. For example, EVE Energy, a battery manufacturing company based in China, released a condensed-state battery incorporating gel technology in September 2024. This battery delivers more than a 20% increase in energy density, along with an M-series battery that offers a 30% increase in energy density and an annually low

self-discharge rate of 3%, contributing to a long lifespan and high-energy discharge. Other innovations such as customizable and detachable designs that are compatible with various cell types focus on enhancing safety and usability for disposable vape products. Such technological advancements in battery development are fueling the expansion of the single-use vape battery market.

What Segments Are Covered In The Single-Use Vape Battery Market Report?

The single-use vape battery market covered in this report is segmented as

- 1) By Type Of Battery: Lithium-Ion Batteries, Nickel-Metal Hydride (NiMH) Batteries, Nickel-Cadmium (NiCd) Batteries, Other Types Of Batteries
- 2) By Capacity: Low Capacity (<200 mAh), Medium Capacity (200 mAh – 500 mAh), High Capacity (>500 mAh)
- 3) By Application: Disposable Vape Pens, Pre-Filled Vape Cartridges
- 4) By Distribution Channel: Online, Specialty Vape Shops

Subsegments:

- 1) By Type Of Lithium-Ion Batteries: Lithium-Ion Cylindrical, Lithium-Ion Prismatic, Lithium-Ion Pouch
- 2) By Type Of Nickel-Metal Hydride (NiMH) Batteries: Nickel-Metal Hydride (NiMH) Cylindrical, Nickel-Metal Hydride (NiMH) Button Or Coin, Nickel-Metal Hydride (NiMH) Prismatic
- 3) By Type Of Nickel-Cadmium (NiCd) Batteries: Nickel-Cadmium (NiCd) Cylindrical, Nickel-Cadmium (NiCd) Button Or Coin, Nickel-Cadmium (NiCd) Prismatic
- 4) By Type Of Other Batteries: Zinc-Air Batteries, Lithium-Polymer Batteries, Solid-State Batteries

View the full single-use vape battery market report:

<https://www.thebusinessresearchcompany.com/report/single-use-vape-battery-global-market-report>

Which Region Is Expected To Lead The Single-Use Vape Battery Market By 2025?

In the Single-Use Vape Battery Global Market Report 2025, North America emerged as the leading region for the year 2024. The region predicted to experience the most rapid growth is Europe. The report includes detailed data on various regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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