

Global VRLA Battery Separator Market Growth 2026-2032

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Abstracts

The global VRLA Battery Separator market size is predicted to grow from US\$ 1887 million in 2025 to US\$ 2372 million in 2032; it is expected to grow at a CAGR of 3.4% from 2026 to 2032.

In 2025, global VRLA Battery Separator production reached approximately 1,260 million square meters, with an average global market price of around US\$1,531 per k Sqm. VRLA (Valve-Regulated Lead-Acid) battery separator is a porous, acid-resistant membrane that physically isolates the positive and negative electrodes while allowing ion conduction. Made of materials like ultra-fine glass fiber (AGM) or polyolefin (PP/PE), it enables oxygen recombination by retaining electrolyte in a "starved" or gelled state, preventing leakage and supporting maintenance-free operation. Key features include high porosity, chemical stability, and mechanical strength to ensure safety and longevity in sealed battery systems.

The global market for Valve-Regulated Lead-Acid (VRLA) battery separators, primarily AGM separators, is closely tied to the demand from downstream battery applications.

Current Status and Trends: This market is a mature and specialized niche. Currently, high-performance AGM batteries dominate applications such as automotive start-stop systems, data center UPS, and backup power for telecommunications base stations[citation-6]. These applications impose stringent requirements on battery reliability, cycle life, and safety, which in turn set high-performance standards for the core AGM separator material. Technological advancements focus on improving the resilience and reducing the electrical resistance of separators by refining glass fiber blends, basis weight, and pore structure to meet higher power discharge demands.

Opportunities: Key growth opportunities stem from the global boom in data center construction and the expansion of energy storage systems for renewable energy[citation-6][citation-10]. The critical need for reliable and safe backup power in these sectors solidifies the market foundation for VRLA batteries and their high-end separators. Additionally, continued investment in telecommunications infrastructure in emerging markets provides steady demand.

Challenges: The industry faces significant external and internal headwinds. In the long term, competition from alternative technologies like lithium-ion batteries, with their advantages in energy density and cycle life, poses a persistent threat to lead-acid batteries in mid-to-high-end applications[citation-6]. Furthermore, increasingly stringent environmental regulations surrounding lead, a heavy metal, raise compliance costs and regulatory pressure across the entire industry chain, from raw materials and manufacturing to recycling.

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

This Insight Report provides a comprehensive analysis of the global VRLA Battery Separator 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 VRLA Battery Separator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global VRLA Battery Separator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for VRLA Battery Separator and breaks down the forecast by Type, 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 VRLA Battery Separator.

This report presents a comprehensive overview, market shares, and growth

opportunities of VRLA Battery Separator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

AGM Separator

PE Separator

Segmentation by Basis Weight:

Basis Weight 300 g/m2

Segmentation by Battery Type:

AGM-VRLA Battery Separator

GFL-VRLA Battery Separator

Segmentation by Application:

Start-stop Battery

Power Battery

Fixed Battery

Energy Storage Battery

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.

Daramic (Asahi Kasei)

Hollingsworth & Vose

ENTEK

Lydall

Microporous

Bernard Dumas (Hokuetsu Corporation)

Ahlstrom

Alkegen

Yingkou Zhongjie Shida Separator

Chongqing Zaisheng Technology

Jiangsu Changhai Composite Materials

Zhongcai Technology

Shandong Shen County Huayang Industrial

Tianchang Yongchang Fiberglass

Zhenjiang Tiger Battery Membrane Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global VRLA Battery Separator market?

What factors are driving VRLA Battery Separator market growth, globally and by region?

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

How do VRLA Battery Separator market opportunities vary by end market size?

How does VRLA Battery Separator break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global VRLA Battery Separator Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for VRLA Battery Separator by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for VRLA Battery Separator by Country/Region, 2021, 2025 & 2032
- 2.2 VRLA Battery Separator Segment by Type
 - 2.2.1 AGM Separator
 - 2.2.2 PE Separator
 - 2.2.3 VRLA Battery Separator Sales by Type
 - 2.2.3.1 Global VRLA Battery Separator Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global VRLA Battery Separator Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global VRLA Battery Separator Sale Price by Type (2021-2026)
- 2.3 VRLA Battery Separator Segment by Basis Weight
 - 2.3.1 Basis Weight 300 g/m²
 - 2.3.4 VRLA Battery Separator Sales by Basis Weight
 - 2.3.4.1 Global VRLA Battery Separator Sales Market Share by Basis Weight (2021-2026)
 - 2.3.4.2 Global VRLA Battery Separator Revenue and Market Share by Basis Weight (2021-2026)
 - 2.3.4.3 Global VRLA Battery Separator Sale Price by Basis Weight (2021-2026)
- 2.4 VRLA Battery Separator Segment by Battery Type
 - 2.4.1 AGM-VRLA Battery Separator

2.4.2 GFL-VRLA Battery Separator

2.4.3 VRLA Battery Separator Sales by Battery Type

2.4.3.1 Global VRLA Battery Separator Sales Market Share by Battery Type (2021-2026)

2.4.3.2 Global VRLA Battery Separator Revenue and Market Share by Battery Type (2021-2026)

2.4.3.3 Global VRLA Battery Separator Sale Price by Battery Type (2021-2026)

2.5 VRLA Battery Separator Segment by Application

2.5.1 Start-stop Battery

2.5.2 Power Battery

2.5.3 Fixed Battery

2.5.4 Energy Storage Battery

2.5.5 VRLA Battery Separator Sales by Application

2.5.5.1 Global VRLA Battery Separator Sale Market Share by Application (2021-2026)

2.5.5.2 Global VRLA Battery Separator Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global VRLA Battery Separator Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global VRLA Battery Separator Breakdown Data by Company

3.1.1 Global VRLA Battery Separator Annual Sales by Company (2021-2026)

3.1.2 Global VRLA Battery Separator Sales Market Share by Company (2021-2026)

3.2 Global VRLA Battery Separator Annual Revenue by Company (2021-2026)

3.2.1 Global VRLA Battery Separator Revenue by Company (2021-2026)

3.2.2 Global VRLA Battery Separator Revenue Market Share by Company (2021-2026)

3.3 Global VRLA Battery Separator Sale Price by Company

3.4 Key Manufacturers VRLA Battery Separator Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers VRLA Battery Separator Product Location Distribution

3.4.2 Players VRLA Battery Separator Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR VRLA BATTERY SEPARATOR BY GEOGRAPHIC REGION

4.1 World Historic VRLA Battery Separator Market Size by Geographic Region (2021-2026)

4.1.1 Global VRLA Battery Separator Annual Sales by Geographic Region (2021-2026)

4.1.2 Global VRLA Battery Separator Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic VRLA Battery Separator Market Size by Country/Region (2021-2026)

4.2.1 Global VRLA Battery Separator Annual Sales by Country/Region (2021-2026)

4.2.2 Global VRLA Battery Separator Annual Revenue by Country/Region (2021-2026)

4.3 Americas VRLA Battery Separator Sales Growth

4.4 APAC VRLA Battery Separator Sales Growth

4.5 Europe VRLA Battery Separator Sales Growth

4.6 Middle East & Africa VRLA Battery Separator Sales Growth

5 AMERICAS

5.1 Americas VRLA Battery Separator Sales by Country

5.1.1 Americas VRLA Battery Separator Sales by Country (2021-2026)

5.1.2 Americas VRLA Battery Separator Revenue by Country (2021-2026)

5.2 Americas VRLA Battery Separator Sales by Type (2021-2026)

5.3 Americas VRLA Battery Separator Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC VRLA Battery Separator Sales by Region

6.1.1 APAC VRLA Battery Separator Sales by Region (2021-2026)

6.1.2 APAC VRLA Battery Separator Revenue by Region (2021-2026)

6.2 APAC VRLA Battery Separator Sales by Type (2021-2026)

6.3 APAC VRLA Battery Separator Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe VRLA Battery Separator by Country

7.1.1 Europe VRLA Battery Separator Sales by Country (2021-2026)

7.1.2 Europe VRLA Battery Separator Revenue by Country (2021-2026)

7.2 Europe VRLA Battery Separator Sales by Type (2021-2026)

7.3 Europe VRLA Battery Separator Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa VRLA Battery Separator by Country

8.1.1 Middle East & Africa VRLA Battery Separator Sales by Country (2021-2026)

8.1.2 Middle East & Africa VRLA Battery Separator Revenue by Country (2021-2026)

8.2 Middle East & Africa VRLA Battery Separator Sales by Type (2021-2026)

8.3 Middle East & Africa VRLA Battery Separator Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of VRLA Battery Separator
- 10.3 Manufacturing Process Analysis of VRLA Battery Separator
- 10.4 Industry Chain Structure of VRLA Battery Separator

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 VRLA Battery Separator Distributors
- 11.3 VRLA Battery Separator Customer

12 WORLD FORECAST REVIEW FOR VRLA BATTERY SEPARATOR BY GEOGRAPHIC REGION

- 12.1 Global VRLA Battery Separator Market Size Forecast by Region
 - 12.1.1 Global VRLA Battery Separator Forecast by Region (2027-2032)
 - 12.1.2 Global VRLA Battery Separator Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global VRLA Battery Separator Forecast by Type (2027-2032)
- 12.7 Global VRLA Battery Separator Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Daramic (Asahi Kasei)
 - 13.1.1 Daramic (Asahi Kasei) Company Information
 - 13.1.2 Daramic (Asahi Kasei) VRLA Battery Separator Product Portfolios and Specifications
 - 13.1.3 Daramic (Asahi Kasei) VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Daramic (Asahi Kasei) Main Business Overview
 - 13.1.5 Daramic (Asahi Kasei) Latest Developments
- 13.2 Hollingsworth & Vose
 - 13.2.1 Hollingsworth & Vose Company Information

13.2.2 Hollingsworth & Vose VRLA Battery Separator Product Portfolios and Specifications

13.2.3 Hollingsworth & Vose VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Hollingsworth & Vose Main Business Overview

13.2.5 Hollingsworth & Vose Latest Developments

13.3 ENTEK

13.3.1 ENTEK Company Information

13.3.2 ENTEK VRLA Battery Separator Product Portfolios and Specifications

13.3.3 ENTEK VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 ENTEK Main Business Overview

13.3.5 ENTEK Latest Developments

13.4 Lydall

13.4.1 Lydall Company Information

13.4.2 Lydall VRLA Battery Separator Product Portfolios and Specifications

13.4.3 Lydall VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Lydall Main Business Overview

13.4.5 Lydall Latest Developments

13.5 Microporous

13.5.1 Microporous Company Information

13.5.2 Microporous VRLA Battery Separator Product Portfolios and Specifications

13.5.3 Microporous VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Microporous Main Business Overview

13.5.5 Microporous Latest Developments

13.6 Bernard Dumas (Hokuetsu Corporation)

13.6.1 Bernard Dumas (Hokuetsu Corporation) Company Information

13.6.2 Bernard Dumas (Hokuetsu Corporation) VRLA Battery Separator Product Portfolios and Specifications

13.6.3 Bernard Dumas (Hokuetsu Corporation) VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Bernard Dumas (Hokuetsu Corporation) Main Business Overview

13.6.5 Bernard Dumas (Hokuetsu Corporation) Latest Developments

13.7 Ahlstrom

13.7.1 Ahlstrom Company Information

13.7.2 Ahlstrom VRLA Battery Separator Product Portfolios and Specifications

13.7.3 Ahlstrom VRLA Battery Separator Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Ahlstrom Main Business Overview

13.7.5 Ahlstrom Latest Developments

13.8 Alkegen

13.8.1 Alkegen Company Information

13.8.2 Alkegen VRLA Battery Separator Product Portfolios and Specifications

13.8.3 Alkegen VRLA Battery Separator Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 Alkegen Main Business Overview

13.8.5 Alkegen Latest Developments

13.9 Yingkou Zhongjie Shida Separator

13.9.1 Yingkou Zhongjie Shida Separator Company Information

13.9.2 Yingkou Zhongjie Shida Separator VRLA Battery Separator Product Portfolios and Specifications

13.9.3 Yingkou Zhongjie Shida Separator VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Yingkou Zhongjie Shida Separator Main Business Overview

13.9.5 Yingkou Zhongjie Shida Separator Latest Developments

13.10 Chongqing Zaisheng Technology

13.10.1 Chongqing Zaisheng Technology Company Information

13.10.2 Chongqing Zaisheng Technology VRLA Battery Separator Product Portfolios and Specifications

13.10.3 Chongqing Zaisheng Technology VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Chongqing Zaisheng Technology Main Business Overview

13.10.5 Chongqing Zaisheng Technology Latest Developments

13.11 Jiangsu Changhai Composite Materials

13.11.1 Jiangsu Changhai Composite Materials Company Information

13.11.2 Jiangsu Changhai Composite Materials VRLA Battery Separator Product Portfolios and Specifications

13.11.3 Jiangsu Changhai Composite Materials VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Jiangsu Changhai Composite Materials Main Business Overview

13.11.5 Jiangsu Changhai Composite Materials Latest Developments

13.12 Zhongcai Technology

13.12.1 Zhongcai Technology Company Information

13.12.2 Zhongcai Technology VRLA Battery Separator Product Portfolios and Specifications

13.12.3 Zhongcai Technology VRLA Battery Separator Sales, Revenue, Price and

Gross Margin (2021-2026)

13.12.4 Zhongcai Technology Main Business Overview

13.12.5 Zhongcai Technology Latest Developments

13.13 Shandong Shen County Huayang Industrial

13.13.1 Shandong Shen County Huayang Industrial Company Information

13.13.2 Shandong Shen County Huayang Industrial VRLA Battery Separator Product

Portfolios and Specifications

13.13.3 Shandong Shen County Huayang Industrial VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shandong Shen County Huayang Industrial Main Business Overview

13.13.5 Shandong Shen County Huayang Industrial Latest Developments

13.14 Tianchang Yongchang Fiberglass

13.14.1 Tianchang Yongchang Fiberglass Company Information

13.14.2 Tianchang Yongchang Fiberglass VRLA Battery Separator Product Portfolios and Specifications

13.14.3 Tianchang Yongchang Fiberglass VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Tianchang Yongchang Fiberglass Main Business Overview

13.14.5 Tianchang Yongchang Fiberglass Latest Developments

13.15 Zhenjiang Tiger Battery Membrane Technology

13.15.1 Zhenjiang Tiger Battery Membrane Technology Company Information

13.15.2 Zhenjiang Tiger Battery Membrane Technology VRLA Battery Separator Product Portfolios and Specifications

13.15.3 Zhenjiang Tiger Battery Membrane Technology VRLA Battery Separator Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Zhenjiang Tiger Battery Membrane Technology Main Business Overview

13.15.5 Zhenjiang Tiger Battery Membrane Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. VRLA Battery Separator Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. VRLA Battery Separator Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of AGM Separator

Table 4. Major Players of PE Separator

Table 5. Global VRLA Battery Separator Sales by Type (2021-2026) & (K Sqm)

Table 6. Global VRLA Battery Separator Sales Market Share by Type (2021-2026)

Table 7. Global VRLA Battery Separator Revenue by Type (2021-2026) & (\$ million)

Table 8. Global VRLA Battery Separator Revenue Market Share by Type (2021-2026)

Table 9. Global VRLA Battery Separator Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 10. Major Players of Basis Weight 300 g/m²

Table 13. Global VRLA Battery Separator Sales by Basis Weight (2021-2026) & (K Sqm)

Table 14. Global VRLA Battery Separator Sales Market Share by Basis Weight (2021-2026)

Table 15. Global VRLA Battery Separator Revenue by Basis Weight (2021-2026) & (\$ million)

Table 16. Global VRLA Battery Separator Revenue Market Share by Basis Weight (2021-2026)

Table 17. Global VRLA Battery Separator Sale Price by Basis Weight (2021-2026) & (US\$/Sq m)

Table 18. Major Players of AGM-VRLA Battery Separator

Table 19. Major Players of GFL-VRLA Battery Separator

Table 20. Global VRLA Battery Separator Sales by Battery Type (2021-2026) & (K Sqm)

Table 21. Global VRLA Battery Separator Sales Market Share by Battery Type (2021-2026)

Table 22. Global VRLA Battery Separator Revenue by Battery Type (2021-2026) & (\$ million)

Table 23. Global VRLA Battery Separator Revenue Market Share by Battery Type (2021-2026)

Table 24. Global VRLA Battery Separator Sale Price by Battery Type (2021-2026) & (US\$/Sq m)

Table 25. Global VRLA Battery Separator Sale by Application (2021-2026) & (K Sqm)

Table 26. Global VRLA Battery Separator Sale Market Share by Application (2021-2026)

Table 27. Global VRLA Battery Separator Revenue by Application (2021-2026) & (\$ million)

Table 28. Global VRLA Battery Separator Revenue Market Share by Application (2021-2026)

Table 29. Global VRLA Battery Separator Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 30. Global VRLA Battery Separator Sales by Company (2021-2026) & (K Sqm)

Table 31. Global VRLA Battery Separator Sales Market Share by Company (2021-2026)

Table 32. Global VRLA Battery Separator Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global VRLA Battery Separator Revenue Market Share by Company (2021-2026)

Table 34. Global VRLA Battery Separator Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 35. Key Manufacturers VRLA Battery Separator Producing Area Distribution and Sales Area

Table 36. Players VRLA Battery Separator Products Offered

Table 37. VRLA Battery Separator Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global VRLA Battery Separator Sales by Geographic Region (2021-2026) & (K Sqm)

Table 41. Global VRLA Battery Separator Sales Market Share Geographic Region (2021-2026)

Table 42. Global VRLA Battery Separator Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global VRLA Battery Separator Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global VRLA Battery Separator Sales by Country/Region (2021-2026) & (K Sqm)

Table 45. Global VRLA Battery Separator Sales Market Share by Country/Region (2021-2026)

Table 46. Global VRLA Battery Separator Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global VRLA Battery Separator Revenue Market Share by Country/Region

(2021-2026)

Table 48. Americas VRLA Battery Separator Sales by Country (2021-2026) & (K Sqm)

Table 49. Americas VRLA Battery Separator Sales Market Share by Country
(2021-2026)

Table 50. Americas VRLA Battery Separator Revenue by Country (2021-2026) & (\$
millions)

Table 51. Americas VRLA Battery Separator Sales by Type (2021-2026) & (K Sqm)

Table 52. Americas VRLA Battery Separator Sales by Application (2021-2026) & (K
Sqm)

Table 53. APAC VRLA Battery Separator Sales by Region (2021-2026) & (K Sqm)

Table 54. APAC VRLA Battery Separator Sales Market Share by Region (2021-2026)

Table 55. APAC VRLA Battery Separator Revenue by Region (2021-2026) & (\$
millions)

Table 56. APAC VRLA Battery Separator Sales by Type (2021-2026) & (K Sqm)

Table 57. APAC VRLA Battery Separator Sales by Application (2021-2026) & (K Sqm)

Table 58. Europe VRLA Battery Separator Sales by Country (2021-2026) & (K Sqm)

Table 59. Europe VRLA Battery Separator Revenue by Country (2021-2026) & (\$
millions)

Table 60. Europe VRLA Battery Separator Sales by Type (2021-2026) & (K Sqm)

Table 61. Europe VRLA Battery Separator Sales by Application (2021-2026) & (K Sqm)

Table 62. Middle East & Africa VRLA Battery Separator Sales by Country (2021-2026)
& (K Sqm)

Table 63. Middle East & Africa VRLA Battery Separator Revenue Market Share by
Country (2021-2026)

Table 64. Middle East & Africa VRLA Battery Separator Sales by Type (2021-2026) &
(K Sqm)

Table 65. Middle East & Africa VRLA Battery Separator Sales by Application
(2021-2026) & (K Sqm)

Table 66. Key Market Drivers & Growth Opportunities of VRLA Battery Separator

Table 67. Key Market Challenges & Risks of VRLA Battery Separator

Table 68. Key Industry Trends of VRLA Battery Separator

Table 69. VRLA Battery Separator Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. VRLA Battery Separator Distributors List

Table 72. VRLA Battery Separator Customer List

Table 73. Global VRLA Battery Separator Sales Forecast by Region (2027-2032) & (K
Sqm)

Table 74. Global VRLA Battery Separator Revenue Forecast by Region (2027-2032) &
(\$ millions)

Table 75. Americas VRLA Battery Separator Sales Forecast by Country (2027-2032) & (K Sqm)

Table 76. Americas VRLA Battery Separator Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC VRLA Battery Separator Sales Forecast by Region (2027-2032) & (K Sqm)

Table 78. APAC VRLA Battery Separator Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe VRLA Battery Separator Sales Forecast by Country (2027-2032) & (K Sqm)

Table 80. Europe VRLA Battery Separator Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa VRLA Battery Separator Sales Forecast by Country (2027-2032) & (K Sqm)

Table 82. Middle East & Africa VRLA Battery Separator Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global VRLA Battery Separator Sales Forecast by Type (2027-2032) & (K Sqm)

Table 84. Global VRLA Battery Separator Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global VRLA Battery Separator Sales Forecast by Application (2027-2032) & (K Sqm)

Table 86. Global VRLA Battery Separator Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Daramic (Asahi Kasei) Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 88. Daramic (Asahi Kasei) VRLA Battery Separator Product Portfolios and Specifications

Table 89. Daramic (Asahi Kasei) VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 90. Daramic (Asahi Kasei) Main Business

Table 91. Daramic (Asahi Kasei) Latest Developments

Table 92. Hollingsworth & Vose Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 93. Hollingsworth & Vose VRLA Battery Separator Product Portfolios and Specifications

Table 94. Hollingsworth & Vose VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 95. Hollingsworth & Vose Main Business

Table 96. Hollingsworth & Vose Latest Developments
Table 97. ENTEK Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors
Table 98. ENTEK VRLA Battery Separator Product Portfolios and Specifications
Table 99. ENTEK VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 100. ENTEK Main Business
Table 101. ENTEK Latest Developments
Table 102. Lydall Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors
Table 103. Lydall VRLA Battery Separator Product Portfolios and Specifications
Table 104. Lydall VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 105. Lydall Main Business
Table 106. Lydall Latest Developments
Table 107. Microporous Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors
Table 108. Microporous VRLA Battery Separator Product Portfolios and Specifications
Table 109. Microporous VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 110. Microporous Main Business
Table 111. Microporous Latest Developments
Table 112. Bernard Dumas (Hokuetsu Corporation) Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors
Table 113. Bernard Dumas (Hokuetsu Corporation) VRLA Battery Separator Product Portfolios and Specifications
Table 114. Bernard Dumas (Hokuetsu Corporation) VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 115. Bernard Dumas (Hokuetsu Corporation) Main Business
Table 116. Bernard Dumas (Hokuetsu Corporation) Latest Developments
Table 117. Ahlstrom Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors
Table 118. Ahlstrom VRLA Battery Separator Product Portfolios and Specifications
Table 119. Ahlstrom VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 120. Ahlstrom Main Business
Table 121. Ahlstrom Latest Developments
Table 122. Alkegen Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 123. Alkegen VRLA Battery Separator Product Portfolios and Specifications

Table 124. Alkegen VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 125. Alkegen Main Business

Table 126. Alkegen Latest Developments

Table 127. Yingkou Zhongjie Shida Separator Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 128. Yingkou Zhongjie Shida Separator VRLA Battery Separator Product Portfolios and Specifications

Table 129. Yingkou Zhongjie Shida Separator VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 130. Yingkou Zhongjie Shida Separator Main Business

Table 131. Yingkou Zhongjie Shida Separator Latest Developments

Table 132. Chongqing Zaisheng Technology Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 133. Chongqing Zaisheng Technology VRLA Battery Separator Product Portfolios and Specifications

Table 134. Chongqing Zaisheng Technology VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 135. Chongqing Zaisheng Technology Main Business

Table 136. Chongqing Zaisheng Technology Latest Developments

Table 137. Jiangsu Changhai Composite Materials Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 138. Jiangsu Changhai Composite Materials VRLA Battery Separator Product Portfolios and Specifications

Table 139. Jiangsu Changhai Composite Materials VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 140. Jiangsu Changhai Composite Materials Main Business

Table 141. Jiangsu Changhai Composite Materials Latest Developments

Table 142. Zhongcai Technology Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 143. Zhongcai Technology VRLA Battery Separator Product Portfolios and Specifications

Table 144. Zhongcai Technology VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 145. Zhongcai Technology Main Business

Table 146. Zhongcai Technology Latest Developments

Table 147. Shandong Shen County Huayang Industrial Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 148. Shandong Shen County Huayang Industrial VRLA Battery Separator Product Portfolios and Specifications

Table 149. Shandong Shen County Huayang Industrial VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 150. Shandong Shen County Huayang Industrial Main Business

Table 151. Shandong Shen County Huayang Industrial Latest Developments

Table 152. Tianchang Yongchang Fiberglass Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 153. Tianchang Yongchang Fiberglass VRLA Battery Separator Product Portfolios and Specifications

Table 154. Tianchang Yongchang Fiberglass VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 155. Tianchang Yongchang Fiberglass Main Business

Table 156. Tianchang Yongchang Fiberglass Latest Developments

Table 157. Zhenjiang Tiger Battery Membrane Technology Basic Information, VRLA Battery Separator Manufacturing Base, Sales Area and Its Competitors

Table 158. Zhenjiang Tiger Battery Membrane Technology VRLA Battery Separator Product Portfolios and Specifications

Table 159. Zhenjiang Tiger Battery Membrane Technology VRLA Battery Separator Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 160. Zhenjiang Tiger Battery Membrane Technology Main Business

Table 161. Zhenjiang Tiger Battery Membrane Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of VRLA Battery Separator
- Figure 2. VRLA Battery Separator Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global VRLA Battery Separator Sales Growth Rate 2021-2032 (K Sqm)
- Figure 7. Global VRLA Battery Separator Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. VRLA Battery Separator Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. VRLA Battery Separator Sales Market Share by Country/Region (2025)
- Figure 10. VRLA Battery Separator Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of AGM Separator
- Figure 12. Product Picture of PE Separator
- Figure 13. Global VRLA Battery Separator Sales Market Share by Type in 2026
- Figure 14. Global VRLA Battery Separator Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Basis Weight 300 g/m²
- Figure 18. Global VRLA Battery Separator Sales Market Share by Basis Weight in 2026
- Figure 19. Global VRLA Battery Separator Revenue Market Share by Basis Weight (2021-2026)
- Figure 20. Product Picture of AGM-VRLA Battery Separator
- Figure 21. Product Picture of GFL-VRLA Battery Separator
- Figure 22. Global VRLA Battery Separator Sales Market Share by Battery Type in 2026
- Figure 23. Global VRLA Battery Separator Revenue Market Share by Battery Type (2021-2026)
- Figure 24. VRLA Battery Separator Consumed in Start-stop Battery
- Figure 25. Global VRLA Battery Separator Market: Start-stop Battery (2021-2026) & (K Sqm)
- Figure 26. VRLA Battery Separator Consumed in Power Battery
- Figure 27. Global VRLA Battery Separator Market: Power Battery (2021-2026) & (K Sqm)
- Figure 28. VRLA Battery Separator Consumed in Fixed Battery
- Figure 29. Global VRLA Battery Separator Market: Fixed Battery (2021-2026) & (K Sqm)
- Figure 30. VRLA Battery Separator Consumed in Energy Storage Battery

Figure 31. Global VRLA Battery Separator Market: Energy Storage Battery (2021-2026) & (K Sqm)

Figure 32. Global VRLA Battery Separator Sale Market Share by Application (2025)

Figure 33. Global VRLA Battery Separator Revenue Market Share by Application in 2026

Figure 34. VRLA Battery Separator Sales by Company in 2026 (K Sqm)

Figure 35. Global VRLA Battery Separator Sales Market Share by Company in 2026

Figure 36. VRLA Battery Separator Revenue by Company in 2026 (\$ millions)

Figure 37. Global VRLA Battery Separator Revenue Market Share by Company in 2026

Figure 38. Global VRLA Battery Separator Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global VRLA Battery Separator Revenue Market Share by Geographic Region in 2026

Figure 40. Americas VRLA Battery Separator Sales 2021-2026 (K Sqm)

Figure 41. Americas VRLA Battery Separator Revenue 2021-2026 (\$ millions)

Figure 42. APAC VRLA Battery Separator Sales 2021-2026 (K Sqm)

Figure 43. APAC VRLA Battery Separator Revenue 2021-2026 (\$ millions)

Figure 44. Europe VRLA Battery Separator Sales 2021-2026 (K Sqm)

Figure 45. Europe VRLA Battery Separator Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa VRLA Battery Separator Sales 2021-2026 (K Sqm)

Figure 47. Middle East & Africa VRLA Battery Separator Revenue 2021-2026 (\$ millions)

Figure 48. Americas VRLA Battery Separator Sales Market Share by Country in 2026

Figure 49. Americas VRLA Battery Separator Revenue Market Share by Country (2021-2026)

Figure 50. Americas VRLA Battery Separator Sales Market Share by Type (2021-2026)

Figure 51. Americas VRLA Battery Separator Sales Market Share by Application (2021-2026)

Figure 52. United States VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC VRLA Battery Separator Sales Market Share by Region in 2026

Figure 57. APAC VRLA Battery Separator Revenue Market Share by Region (2021-2026)

Figure 58. APAC VRLA Battery Separator Sales Market Share by Type (2021-2026)

Figure 59. APAC VRLA Battery Separator Sales Market Share by Application (2021-2026)

Figure 60. China VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 64. India VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe VRLA Battery Separator Sales Market Share by Country in 2026

Figure 68. Europe VRLA Battery Separator Revenue Market Share by Country (2021-2026)

Figure 69. Europe VRLA Battery Separator Sales Market Share by Type (2021-2026)

Figure 70. Europe VRLA Battery Separator Sales Market Share by Application (2021-2026)

Figure 71. Germany VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 72. France VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa VRLA Battery Separator Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa VRLA Battery Separator Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa VRLA Battery Separator Sales Market Share by Application (2021-2026)

Figure 79. Egypt VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries VRLA Battery Separator Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of VRLA Battery Separator in 2026

Figure 85. Manufacturing Process Analysis of VRLA Battery Separator

Figure 86. Industry Chain Structure of VRLA Battery Separator

Figure 87. Channels of Distribution

Figure 88. Global VRLA Battery Separator Sales Market Forecast by Region

(2027-2032)

Figure 89. Global VRLA Battery Separator Revenue Market Share Forecast by Region
(2027-2032)

Figure 90. Global VRLA Battery Separator Sales Market Share Forecast by Type
(2027-2032)

Figure 91. Global VRLA Battery Separator Revenue Market Share Forecast by Type
(2027-2032)

Figure 92. Global VRLA Battery Separator Sales Market Share Forecast by Application
(2027-2032)

Figure 93. Global VRLA Battery Separator Revenue Market Share Forecast by
Application (2027-2032)

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