

Global Radioisotope Battery Market Growth 2026-2032

<https://marketpublishers.com/r/G526C82F5A74EN.html>

Date: July 2026

Pages: 99

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

ID: G526C82F5A74EN

Abstracts

The global Radioisotope Battery market size is predicted to grow from US\$ 11.68 million in 2025 to US\$ 51.03 million in 2032; it is expected to grow at a CAGR of 22.8% from 2026 to 2032.

A radioisotope battery (also known as a nuclear battery or atomic battery) is a power generation device that converts the energy released by the decay of radioactive isotopes into electrical energy. Its core principle is that unstable nuclides continuously release high-energy particles during alpha or beta decay. These particles collide with surrounding matter and convert their kinetic energy into heat energy. Subsequently, through physical mechanisms such as thermoelectric effects (e.g., thermocouples), thermionic emission, or photoelectric effects, the heat energy is further converted into usable electrical current. Unlike traditional chemical batteries, nuclear batteries do not depend on any external chemical reactions or environmental conditions, exhibiting extremely high energy density and independence.

The most significant advantage of this type of battery lies in its extremely long lifespan and excellent environmental adaptability. Because the half-life of radioactive isotopes typically lasts for years, decades, or even centuries (e.g., plutonium-238 has a half-life of approximately 87.7 years), nuclear batteries can provide electricity continuously and stably without external maintenance or refueling. This makes them an irreplaceable energy solution in extreme environments, and they are widely used in deep space probes (such as the Voyager and Perseverance Mars rovers), long-term seabed observation stations, and polar unmanned weather stations, where conventional charging or solar power generation is not possible.

In 2025, global radioisotope battery production reached approximately 752 units, with an average global market price of around US\$ 15.88 thousand per unit. And global radioisotope battery production capacity reached approximately 950 units. The average

gross margin in this industry reached 51.56%.

The upstream of the radioisotope battery industry centers on the production and processing of radioisotopes—mainly Plutonium-238, as well as encapsulation materials, thermoelectric materials, and high-reliability heat-to-electricity conversion components. This includes nuclear fuel fabrication, isotope refinement, and advanced materials for thermoelectric modules (e.g., SiGe, skutterudites). The supply chain is highly specialized and government-regulated. Representative upstream entities include Oak Ridge National Laboratory (Pu-238 production), Idaho National Laboratory (nuclear materials handling), and European Commission's JRC (radioisotope research).

The downstream sector involves space agencies and aerospace manufacturers that integrate RPS into deep-space exploration missions, where long-life and high-reliability power is required. Applications include planetary probes, outer-planet orbiters, lunar systems, and surface exploration rovers. These users demand robust, radiation-resistant, and decades-long power sources. Key downstream organizations include NASA (deep-space missions), ESA (for European exploration programs), and aerospace integrators such as Lockheed Martin that assemble spacecraft using radioisotope battery units.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Radioisotope Battery 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 Radioisotope Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Radioisotope Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Radioisotope Power System

Betavoltaic Battery

Segmentation by Discharging Power:

110W

Others

Segmentation by Voltage:

6-8V

28-32V

Others

Segmentation by Application:

Defence & Aerospace

Civilian

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.

Teledyne (US)

City Labs (US)

NDB (US)

Zeno Power (US)

Infinity Power (US)

Betavolt (CN)

Key Questions Addressed in this Report

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

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

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

How do Radioisotope Battery market opportunities vary by end market size?

How does Radioisotope Battery 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 Radioisotope Battery Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Radioisotope Battery by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Radioisotope Battery by Country/Region, 2021, 2025 & 2032
- 2.2 Radioisotope Battery Segment by Type
 - 2.2.1 Radioisotope Power System
 - 2.2.2 Betavoltaic Battery
 - 2.2.3 Radioisotope Battery Sales by Type
 - 2.2.3.1 Global Radioisotope Battery Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Radioisotope Battery Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Radioisotope Battery Sale Price by Type (2021-2026)
- 2.3 Radioisotope Battery Segment by Discharging Power
 - 2.3.1 110W
 - 2.3.2 Others
 - 2.3.3 Radioisotope Battery Sales by Discharging Power
 - 2.3.3.1 Global Radioisotope Battery Sales Market Share by Discharging Power (2021-2026)
 - 2.3.3.2 Global Radioisotope Battery Revenue and Market Share by Discharging Power (2021-2026)
 - 2.3.3.3 Global Radioisotope Battery Sale Price by Discharging Power (2021-2026)
- 2.4 Radioisotope Battery Segment by Voltage
 - 2.4.1 6-8V

2.4.2 28-32V

2.4.3 Others

2.4.4 Radioisotope Battery Sales by Voltage

2.4.4.1 Global Radioisotope Battery Sales Market Share by Voltage (2021-2026)

2.4.4.2 Global Radioisotope Battery Revenue and Market Share by Voltage
(2021-2026)

2.4.4.3 Global Radioisotope Battery Sale Price by Voltage (2021-2026)

2.5 Radioisotope Battery Segment by Application

2.5.1 Defence & Aerospace

2.5.2 Civilian

2.5.3 Radioisotope Battery Sales by Application

2.5.3.1 Global Radioisotope Battery Sale Market Share by Application (2021-2026)

2.5.3.2 Global Radioisotope Battery Revenue and Market Share by Application
(2021-2026)

2.5.3.3 Global Radioisotope Battery Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Radioisotope Battery Breakdown Data by Company

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

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

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

3.2.1 Global Radioisotope Battery Revenue by Company (2021-2026)

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

3.3 Global Radioisotope Battery Sale Price by Company

3.4 Key Manufacturers Radioisotope Battery Producing Area Distribution, Sales Area,
Product Type

3.4.1 Key Manufacturers Radioisotope Battery Product Location Distribution

3.4.2 Players Radioisotope Battery 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 RADIOISOTOPE BATTERY BY GEOGRAPHIC REGION

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

- 4.1.1 Global Radioisotope Battery Annual Sales by Geographic Region (2021-2026)
- 4.1.2 Global Radioisotope Battery Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Radioisotope Battery Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Radioisotope Battery Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Radioisotope Battery Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Radioisotope Battery Sales Growth
- 4.4 APAC Radioisotope Battery Sales Growth
- 4.5 Europe Radioisotope Battery Sales Growth
- 4.6 Middle East & Africa Radioisotope Battery Sales Growth

5 AMERICAS

- 5.1 Americas Radioisotope Battery Sales by Country
 - 5.1.1 Americas Radioisotope Battery Sales by Country (2021-2026)
 - 5.1.2 Americas Radioisotope Battery Revenue by Country (2021-2026)
- 5.2 Americas Radioisotope Battery Sales by Type (2021-2026)
- 5.3 Americas Radioisotope Battery Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Radioisotope Battery Sales by Region
 - 6.1.1 APAC Radioisotope Battery Sales by Region (2021-2026)
 - 6.1.2 APAC Radioisotope Battery Revenue by Region (2021-2026)
- 6.2 APAC Radioisotope Battery Sales by Type (2021-2026)
- 6.3 APAC Radioisotope Battery 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 Radioisotope Battery by Country

7.1.1 Europe Radioisotope Battery Sales by Country (2021-2026)

7.1.2 Europe Radioisotope Battery Revenue by Country (2021-2026)

7.2 Europe Radioisotope Battery Sales by Type (2021-2026)

7.3 Europe Radioisotope Battery 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 Radioisotope Battery by Country

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

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

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

8.3 Middle East & Africa Radioisotope Battery 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 Radioisotope Battery

10.3 Manufacturing Process Analysis of Radioisotope Battery

10.4 Industry Chain Structure of Radioisotope Battery

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Radioisotope Battery Distributors

11.3 Radioisotope Battery Customer

12 WORLD FORECAST REVIEW FOR RADIOISOTOPE BATTERY BY GEOGRAPHIC REGION

12.1 Global Radioisotope Battery Market Size Forecast by Region

12.1.1 Global Radioisotope Battery Forecast by Region (2027-2032)

12.1.2 Global Radioisotope Battery 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 Radioisotope Battery Forecast by Type (2027-2032)

12.7 Global Radioisotope Battery Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Teledyne (US)

13.1.1 Teledyne (US) Company Information

13.1.2 Teledyne (US) Radioisotope Battery Product Portfolios and Specifications

13.1.3 Teledyne (US) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Teledyne (US) Main Business Overview

13.1.5 Teledyne (US) Latest Developments

13.2 City Labs (US)

13.2.1 City Labs (US) Company Information

13.2.2 City Labs (US) Radioisotope Battery Product Portfolios and Specifications

13.2.3 City Labs (US) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 City Labs (US) Main Business Overview

13.2.5 City Labs (US) Latest Developments

13.3 NDB (US)

13.3.1 NDB (US) Company Information

13.3.2 NDB (US) Radioisotope Battery Product Portfolios and Specifications

13.3.3 NDB (US) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 NDB (US) Main Business Overview

13.3.5 NDB (US) Latest Developments

13.4 Zeno Power (US)

13.4.1 Zeno Power (US) Company Information

13.4.2 Zeno Power (US) Radioisotope Battery Product Portfolios and Specifications

13.4.3 Zeno Power (US) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Zeno Power (US) Main Business Overview

13.4.5 Zeno Power (US) Latest Developments

13.5 Infinity Power (US)

13.5.1 Infinity Power (US) Company Information

13.5.2 Infinity Power (US) Radioisotope Battery Product Portfolios and Specifications

13.5.3 Infinity Power (US) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Infinity Power (US) Main Business Overview

13.5.5 Infinity Power (US) Latest Developments

13.6 Betavolt (CN)

13.6.1 Betavolt (CN) Company Information

13.6.2 Betavolt (CN) Radioisotope Battery Product Portfolios and Specifications

13.6.3 Betavolt (CN) Radioisotope Battery Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Betavolt (CN) Main Business Overview

13.6.5 Betavolt (CN) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Radioisotope Battery Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Radioisotope Battery Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Radioisotope Power System
- Table 4. Major Players of Betavoltaic Battery
- Table 5. Global Radioisotope Battery Sales by Type (2021-2026) & (Units)
- Table 6. Global Radioisotope Battery Sales Market Share by Type (2021-2026)
- Table 7. Global Radioisotope Battery Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Radioisotope Battery Revenue Market Share by Type (2021-2026)
- Table 9. Global Radioisotope Battery Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of 110W
- Table 11. Major Players of Others
- Table 12. Global Radioisotope Battery Sales by Discharging Power (2021-2026) & (Units)
- Table 13. Global Radioisotope Battery Sales Market Share by Discharging Power (2021-2026)
- Table 14. Global Radioisotope Battery Revenue by Discharging Power (2021-2026) & (\$ million)
- Table 15. Global Radioisotope Battery Revenue Market Share by Discharging Power (2021-2026)
- Table 16. Global Radioisotope Battery Sale Price by Discharging Power (2021-2026) & (US\$/Unit)
- Table 17. Major Players of 6-8V
- Table 18. Major Players of 28-32V
- Table 19. Major Players of Others
- Table 20. Global Radioisotope Battery Sales by Voltage (2021-2026) & (Units)
- Table 21. Global Radioisotope Battery Sales Market Share by Voltage (2021-2026)
- Table 22. Global Radioisotope Battery Revenue by Voltage (2021-2026) & (\$ million)
- Table 23. Global Radioisotope Battery Revenue Market Share by Voltage (2021-2026)
- Table 24. Global Radioisotope Battery Sale Price by Voltage (2021-2026) & (US\$/Unit)
- Table 25. Global Radioisotope Battery Sale by Application (2021-2026) & (Units)
- Table 26. Global Radioisotope Battery Sale Market Share by Application (2021-2026)
- Table 27. Global Radioisotope Battery Revenue by Application (2021-2026) & (\$ million)
- Table 28. Global Radioisotope Battery Revenue Market Share by Application

(2021-2026)

Table 29. Global Radioisotope Battery Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Radioisotope Battery Sales by Company (2021-2026) & (Units)

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

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

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

Table 34. Global Radioisotope Battery Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Radioisotope Battery Producing Area Distribution and Sales Area

Table 36. Players Radioisotope Battery Products Offered

Table 37. Radioisotope Battery 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 Radioisotope Battery Sales by Geographic Region (2021-2026) & (Units)

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

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

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

Table 44. Global Radioisotope Battery Sales by Country/Region (2021-2026) & (Units)

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

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

Table 47. Global Radioisotope Battery Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Radioisotope Battery Sales by Country (2021-2026) & (Units)

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

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

Table 51. Americas Radioisotope Battery Sales by Type (2021-2026) & (Units)

Table 52. Americas Radioisotope Battery Sales by Application (2021-2026) & (Units)

Table 53. APAC Radioisotope Battery Sales by Region (2021-2026) & (Units)

Table 54. APAC Radioisotope Battery Sales Market Share by Region (2021-2026)
Table 55. APAC Radioisotope Battery Revenue by Region (2021-2026) & (\$ millions)
Table 56. APAC Radioisotope Battery Sales by Type (2021-2026) & (Units)
Table 57. APAC Radioisotope Battery Sales by Application (2021-2026) & (Units)
Table 58. Europe Radioisotope Battery Sales by Country (2021-2026) & (Units)
Table 59. Europe Radioisotope Battery Revenue by Country (2021-2026) & (\$ millions)
Table 60. Europe Radioisotope Battery Sales by Type (2021-2026) & (Units)
Table 61. Europe Radioisotope Battery Sales by Application (2021-2026) & (Units)
Table 62. Middle East & Africa Radioisotope Battery Sales by Country (2021-2026) & (Units)
Table 63. Middle East & Africa Radioisotope Battery Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Radioisotope Battery Sales by Type (2021-2026) & (Units)
Table 65. Middle East & Africa Radioisotope Battery Sales by Application (2021-2026) & (Units)
Table 66. Key Market Drivers & Growth Opportunities of Radioisotope Battery
Table 67. Key Market Challenges & Risks of Radioisotope Battery
Table 68. Key Industry Trends of Radioisotope Battery
Table 69. Radioisotope Battery Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Radioisotope Battery Distributors List
Table 72. Radioisotope Battery Customer List
Table 73. Global Radioisotope Battery Sales Forecast by Region (2027-2032) & (Units)
Table 74. Global Radioisotope Battery Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas Radioisotope Battery Sales Forecast by Country (2027-2032) & (Units)
Table 76. Americas Radioisotope Battery Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC Radioisotope Battery Sales Forecast by Region (2027-2032) & (Units)
Table 78. APAC Radioisotope Battery Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe Radioisotope Battery Sales Forecast by Country (2027-2032) & (Units)
Table 80. Europe Radioisotope Battery Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa Radioisotope Battery Sales Forecast by Country (2027-2032) & (Units)

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

Table 83. Global Radioisotope Battery Sales Forecast by Type (2027-2032) & (Units)

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

Table 85. Global Radioisotope Battery Sales Forecast by Application (2027-2032) & (Units)

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

Table 87. Teledyne (US) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 88. Teledyne (US) Radioisotope Battery Product Portfolios and Specifications

Table 89. Teledyne (US) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Teledyne (US) Main Business

Table 91. Teledyne (US) Latest Developments

Table 92. City Labs (US) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 93. City Labs (US) Radioisotope Battery Product Portfolios and Specifications

Table 94. City Labs (US) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. City Labs (US) Main Business

Table 96. City Labs (US) Latest Developments

Table 97. NDB (US) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 98. NDB (US) Radioisotope Battery Product Portfolios and Specifications

Table 99. NDB (US) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. NDB (US) Main Business

Table 101. NDB (US) Latest Developments

Table 102. Zeno Power (US) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 103. Zeno Power (US) Radioisotope Battery Product Portfolios and Specifications

Table 104. Zeno Power (US) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Zeno Power (US) Main Business

Table 106. Zeno Power (US) Latest Developments

Table 107. Infinity Power (US) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 108. Infinity Power (US) Radioisotope Battery Product Portfolios and Specifications

Table 109. Infinity Power (US) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Infinity Power (US) Main Business

Table 111. Infinity Power (US) Latest Developments

Table 112. Betavolt (CN) Basic Information, Radioisotope Battery Manufacturing Base, Sales Area and Its Competitors

Table 113. Betavolt (CN) Radioisotope Battery Product Portfolios and Specifications

Table 114. Betavolt (CN) Radioisotope Battery Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Betavolt (CN) Main Business

Table 116. Betavolt (CN) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Radioisotope Battery
- Figure 2. Radioisotope Battery Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Radioisotope Battery Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Radioisotope Battery Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Radioisotope Battery Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Radioisotope Battery Sales Market Share by Country/Region (2025)
- Figure 10. Radioisotope Battery Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Radioisotope Power System
- Figure 12. Product Picture of Betavoltaic Battery
- Figure 13. Global Radioisotope Battery Sales Market Share by Type in 2026
- Figure 14. Global Radioisotope Battery Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 110W
- Figure 16. Product Picture of Others
- Figure 17. Global Radioisotope Battery Sales Market Share by Discharging Power in 2026
- Figure 18. Global Radioisotope Battery Revenue Market Share by Discharging Power (2021-2026)
- Figure 19. Product Picture of 6-8V
- Figure 20. Product Picture of 28-32V
- Figure 21. Product Picture of Others
- Figure 22. Global Radioisotope Battery Sales Market Share by Voltage in 2026
- Figure 23. Global Radioisotope Battery Revenue Market Share by Voltage (2021-2026)
- Figure 24. Radioisotope Battery Consumed in Defence & Aerospace
- Figure 25. Global Radioisotope Battery Market: Defence & Aerospace (2021-2026) & (Units)
- Figure 26. Radioisotope Battery Consumed in Civilian
- Figure 27. Global Radioisotope Battery Market: Civilian (2021-2026) & (Units)
- Figure 28. Global Radioisotope Battery Sale Market Share by Application (2025)
- Figure 29. Global Radioisotope Battery Revenue Market Share by Application in 2025
- Figure 30. Radioisotope Battery Sales by Company in 2025 (Units)

Figure 31. Global Radioisotope Battery Sales Market Share by Company in 2025

Figure 32. Radioisotope Battery Revenue by Company in 2025 (\$ millions)

Figure 33. Global Radioisotope Battery Revenue Market Share by Company in 2025

Figure 34. Global Radioisotope Battery Sales Market Share by Geographic Region (2021-2026)

Figure 35. Global Radioisotope Battery Revenue Market Share by Geographic Region in 2025

Figure 36. Americas Radioisotope Battery Sales 2021-2026 (Units)

Figure 37. Americas Radioisotope Battery Revenue 2021-2026 (\$ millions)

Figure 38. APAC Radioisotope Battery Sales 2021-2026 (Units)

Figure 39. APAC Radioisotope Battery Revenue 2021-2026 (\$ millions)

Figure 40. Europe Radioisotope Battery Sales 2021-2026 (Units)

Figure 41. Europe Radioisotope Battery Revenue 2021-2026 (\$ millions)

Figure 42. Middle East & Africa Radioisotope Battery Sales 2021-2026 (Units)

Figure 43. Middle East & Africa Radioisotope Battery Revenue 2021-2026 (\$ millions)

Figure 44. Americas Radioisotope Battery Sales Market Share by Country in 2025

Figure 45. Americas Radioisotope Battery Revenue Market Share by Country (2021-2026)

Figure 46. Americas Radioisotope Battery Sales Market Share by Type (2021-2026)

Figure 47. Americas Radioisotope Battery Sales Market Share by Application (2021-2026)

Figure 48. United States Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 51. Brazil Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 52. APAC Radioisotope Battery Sales Market Share by Region in 2025

Figure 53. APAC Radioisotope Battery Revenue Market Share by Region (2021-2026)

Figure 54. APAC Radioisotope Battery Sales Market Share by Type (2021-2026)

Figure 55. APAC Radioisotope Battery Sales Market Share by Application (2021-2026)

Figure 56. China Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 59. Southeast Asia Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 60. India Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 61. Australia Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 62. China Taiwan Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe Radioisotope Battery Sales Market Share by Country in 2025

Figure 64. Europe Radioisotope Battery Revenue Market Share by Country (2021-2026)

- Figure 65. Europe Radioisotope Battery Sales Market Share by Type (2021-2026)
- Figure 66. Europe Radioisotope Battery Sales Market Share by Application (2021-2026)
- Figure 67. Germany Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 68. France Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 69. UK Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Italy Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Russia Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Middle East & Africa Radioisotope Battery Sales Market Share by Country (2021-2026)
- Figure 73. Middle East & Africa Radioisotope Battery Sales Market Share by Type (2021-2026)
- Figure 74. Middle East & Africa Radioisotope Battery Sales Market Share by Application (2021-2026)
- Figure 75. Egypt Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 76. South Africa Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Israel Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Turkey Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 79. GCC Countries Radioisotope Battery Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Manufacturing Cost Structure Analysis of Radioisotope Battery in 2026
- Figure 81. Manufacturing Process Analysis of Radioisotope Battery
- Figure 82. Industry Chain Structure of Radioisotope Battery
- Figure 83. Channels of Distribution
- Figure 84. Global Radioisotope Battery Sales Market Forecast by Region (2027-2032)
- Figure 85. Global Radioisotope Battery Revenue Market Share Forecast by Region (2027-2032)
- Figure 86. Global Radioisotope Battery Sales Market Share Forecast by Type (2027-2032)
- Figure 87. Global Radioisotope Battery Revenue Market Share Forecast by Type (2027-2032)
- Figure 88. Global Radioisotope Battery Sales Market Share Forecast by Application (2027-2032)
- Figure 89. Global Radioisotope Battery Revenue Market Share Forecast by Application (2027-2032)

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