

# Global High-Rate Lithium-Ion Polymer Battery Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G55E9CC3BCC0EN.html>

Date: August 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: G55E9CC3BCC0EN

## Abstracts

The global High-Rate Lithium-Ion Polymer Battery market size is expected to reach \$ 4960 million by 2032, rising at a market growth of 12.7% CAGR during the forecast period (2026-2032).

High-Rate Lithium-Ion Polymer Battery is a high-power rechargeable lithium battery built with polymer electrolyte and flexible pouch or customized pack structures, designed to deliver large current output, high discharge C-rate, fast response, and stable performance under demanding load conditions. In 2025, the industry's capacity utilization rate was about 73%, and the average gross margin was around 26%. In 2025, production was 1.735 million KWh and the average price was USD 1200 per KWh. Its upstream supply chain mainly includes high-nickel cathode materials, graphite or silicon-based anode materials, electrolyte, separator, and copper foil, with representative suppliers such as Umicore, BTR New Material Group, and Shenzhen Capchem. The midstream focuses on cell formulation, slurry coating, lamination, pouch assembly, formation, capacity grading, high-rate performance testing, and battery pack integration, where product competitiveness depends on discharge stability, thermal control, cycle life, safety consistency, and customized pack design. Downstream demand is mainly driven by consumer drones, industrial and agricultural drones, and robotics, where high burst power, lightweight structure, and reliable current output are essential, with representative customers including DJI, AgEagle Aerial Systems, and Boston Dynamics.

High-Rate Lithium-Ion Polymer Battery demand will be driven by applications that require short-time high power output rather than only longer runtime. In drones, low-altitude aircraft, power tools, robots, model aircraft, and high-performance portable devices, the battery must deliver rapid discharge, stable voltage, low weight, and

reliable thermal behavior under peak load. Compared with standard lithium batteries, this segment is more sensitive to cell consistency, swelling control, cycle life, safety design, and customized form factors. Future competition will focus on higher discharge rate, energy density balance, fast charging tolerance, thermal stability, lightweight packaging, and the ability to support small-batch customized applications.

This report studies the global High-Rate Lithium-Ion Polymer Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Rate Lithium-Ion Polymer 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 High-Rate Lithium-Ion Polymer Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Rate Lithium-Ion Polymer Battery total production and demand, 2021-2032, (KWh)

Global High-Rate Lithium-Ion Polymer Battery total production value, 2021-2032, (USD Million)

Global High-Rate Lithium-Ion Polymer Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global High-Rate Lithium-Ion Polymer Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: High-Rate Lithium-Ion Polymer Battery domestic production, consumption, key domestic manufacturers and share

Global High-Rate Lithium-Ion Polymer Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global High-Rate Lithium-Ion Polymer Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global High-Rate Lithium-Ion Polymer Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global High-Rate Lithium-Ion Polymer 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 Amperex Technology Limited (China), Shenzhen Grepow Battery (China), MaxAmps (USA), Epsilor (Arotech) (Israel), Denchi

Group (UK), EaglePicher Technologies (USA), Amicell-Amit Industries (Israel), RELiON Batteries (Brunswick) (USA), Enix Power Solutions (Upergy) (France), Bren-Tronics (EnerSys) (USA), 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 High-Rate Lithium-Ion Polymer Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) 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 High-Rate Lithium-Ion Polymer Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Rate Lithium-Ion Polymer Battery Market, Segmentation by Type:

Pouch Cell

Cylindrical Hard-Case Cell

Prismatic Hard-Case Cell

Global High-Rate Lithium-Ion Polymer Battery Market, Segmentation by Electrolyte:

Liquid

Gel

Solid

Global High-Rate Lithium-Ion Polymer Battery Market, Segmentation by Discharge Rate:

10C?Discharge Rate

## Contents

### 1 SUPPLY SUMMARY

- 1.1 High-Rate Lithium-Ion Polymer Battery Introduction
- 1.2 World High-Rate Lithium-Ion Polymer Battery Supply & Forecast
  - 1.2.1 World High-Rate Lithium-Ion Polymer Battery Production Value (2021 & 2025 & 2032)
  - 1.2.2 World High-Rate Lithium-Ion Polymer Battery Production (2021-2032)
  - 1.2.3 World High-Rate Lithium-Ion Polymer Battery Pricing Trends (2021-2032)
- 1.3 World High-Rate Lithium-Ion Polymer Battery Production by Region (Based on Production Site)
  - 1.3.1 World High-Rate Lithium-Ion Polymer Battery Production Value by Region (2021-2032)
  - 1.3.2 World High-Rate Lithium-Ion Polymer Battery Production by Region (2021-2032)
  - 1.3.3 World High-Rate Lithium-Ion Polymer Battery Average Price by Region (2021-2032)
  - 1.3.4 North America High-Rate Lithium-Ion Polymer Battery Production (2021-2032)
  - 1.3.5 Europe High-Rate Lithium-Ion Polymer Battery Production (2021-2032)
  - 1.3.6 China High-Rate Lithium-Ion Polymer Battery Production (2021-2032)
  - 1.3.7 Japan High-Rate Lithium-Ion Polymer Battery Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 High-Rate Lithium-Ion Polymer Battery Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 High-Rate Lithium-Ion Polymer Battery Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World High-Rate Lithium-Ion Polymer Battery Demand (2021-2032)
- 2.2 World High-Rate Lithium-Ion Polymer Battery Consumption by Region
  - 2.2.1 World High-Rate Lithium-Ion Polymer Battery Consumption by Region (2021-2026)
  - 2.2.2 World High-Rate Lithium-Ion Polymer Battery Consumption Forecast by Region (2027-2032)
- 2.3 United States High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)
- 2.4 China High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)
- 2.5 Europe High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)
- 2.6 Japan High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)
- 2.7 South Korea High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)

2.8 ASEAN High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)

2.9 India High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World High-Rate Lithium-Ion Polymer Battery Production Value by Manufacturer (2021-2026)

3.2 World High-Rate Lithium-Ion Polymer Battery Production by Manufacturer (2021-2026)

3.3 World High-Rate Lithium-Ion Polymer Battery Average Price by Manufacturer (2021-2026)

3.4 High-Rate Lithium-Ion Polymer Battery Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High-Rate Lithium-Ion Polymer Battery Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High-Rate Lithium-Ion Polymer Battery in 2025

3.5.3 Global Concentration Ratios (CR8) for High-Rate Lithium-Ion Polymer Battery in 2025

3.6 High-Rate Lithium-Ion Polymer Battery Market: Overall Company Footprint Analysis

3.6.1 High-Rate Lithium-Ion Polymer Battery Market: Region Footprint

3.6.2 High-Rate Lithium-Ion Polymer Battery Market: Company Product Type Footprint

3.6.3 High-Rate Lithium-Ion Polymer Battery Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Value Comparison

4.1.1 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

## 4.2 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Comparison

### 4.2.1 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Comparison (2021 & 2025 & 2032)

### 4.2.2 United States VS China: High-Rate Lithium-Ion Polymer Battery Production Market Share Comparison (2021 & 2025 & 2032)

## 4.3 United States VS China: High-Rate Lithium-Ion Polymer Battery Consumption Comparison

### 4.3.1 United States VS China: High-Rate Lithium-Ion Polymer Battery Consumption Comparison (2021 & 2025 & 2032)

### 4.3.2 United States VS China: High-Rate Lithium-Ion Polymer Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

## 4.4 United States Based High-Rate Lithium-Ion Polymer Battery Manufacturers and Market Share, 2021-2026

### 4.4.1 United States Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (States, Country)

### 4.4.2 United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value (2021-2026)

### 4.4.3 United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production (2021-2026)

## 4.5 China Based High-Rate Lithium-Ion Polymer Battery Manufacturers and Market Share

### 4.5.1 China Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (Province, Country)

### 4.5.2 China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value (2021-2026)

### 4.5.3 China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production (2021-2026)

## 4.6 Rest of World Based High-Rate Lithium-Ion Polymer Battery Manufacturers and Market Share, 2021-2026

### 4.6.1 Rest of World Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (State, Country)

### 4.6.2 Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value (2021-2026)

### 4.6.3 Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

## 5.1 World High-Rate Lithium-Ion Polymer Battery Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

#### 5.2.1 Pouch Cell

#### 5.2.2 Cylindrical Hard-Case Cell

#### 5.2.3 Prismatic Hard-Case Cell

### 5.3 Market Segment by Type

#### 5.3.1 World High-Rate Lithium-Ion Polymer Battery Production by Type (2021-2032)

#### 5.3.2 World High-Rate Lithium-Ion Polymer Battery Production Value by Type (2021-2032)

#### 5.3.3 World High-Rate Lithium-Ion Polymer Battery Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY ELECTROLYTE

### 6.1 World High-Rate Lithium-Ion Polymer Battery Market Size Overview by Electrolyte: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Electrolyte

##### 6.2.1 Liquid

##### 6.2.2 Gel

##### 6.2.3 Solid

#### 6.3 Market Segment by Electrolyte

#### 6.3.1 World High-Rate Lithium-Ion Polymer Battery Production by Electrolyte (2021-2032)

#### 6.3.2 World High-Rate Lithium-Ion Polymer Battery Production Value by Electrolyte (2021-2032)

#### 6.3.3 World High-Rate Lithium-Ion Polymer Battery Average Price by Electrolyte (2021-2032)

## 7 MARKET ANALYSIS BY DISCHARGE RATE

### 7.1 World High-Rate Lithium-Ion Polymer Battery Market Size Overview by Discharge Rate: 2021 VS 2025 VS 2032

#### 7.2 Segment Introduction by Discharge Rate

##### 7.2.1 10C?Discharge Rate

## List Of Tables

### LIST OF TABLES

Table 1. World High-Rate Lithium-Ion Polymer Battery Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-Rate Lithium-Ion Polymer Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-Rate Lithium-Ion Polymer Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Region (2021-2026)

Table 5. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Region (2027-2032)

Table 6. World High-Rate Lithium-Ion Polymer Battery Production by Region (2021-2026) & (KWh)

Table 7. World High-Rate Lithium-Ion Polymer Battery Production by Region (2027-2032) & (KWh)

Table 8. World High-Rate Lithium-Ion Polymer Battery Production Market Share by Region (2021-2026)

Table 9. World High-Rate Lithium-Ion Polymer Battery Production Market Share by Region (2027-2032)

Table 10. World High-Rate Lithium-Ion Polymer Battery Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World High-Rate Lithium-Ion Polymer Battery Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. High-Rate Lithium-Ion Polymer Battery Major Market Trends

Table 13. World High-Rate Lithium-Ion Polymer Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KWh)

Table 14. World High-Rate Lithium-Ion Polymer Battery Consumption by Region (2021-2026) & (KWh)

Table 15. World High-Rate Lithium-Ion Polymer Battery Consumption Forecast by Region (2027-2032) & (KWh)

Table 16. World High-Rate Lithium-Ion Polymer Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-Rate Lithium-Ion Polymer Battery Producers in 2025

Table 18. World High-Rate Lithium-Ion Polymer Battery Production by Manufacturer (2021-2026) & (KWh)

Table 19. Production Market Share of Key High-Rate Lithium-Ion Polymer Battery Producers in 2025

Table 20. World High-Rate Lithium-Ion Polymer Battery Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global High-Rate Lithium-Ion Polymer Battery Company Evaluation Quadrant

Table 22. World High-Rate Lithium-Ion Polymer Battery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-Rate Lithium-Ion Polymer Battery Production Site of Key Manufacturer

Table 24. High-Rate Lithium-Ion Polymer Battery Market: Company Product Type Footprint

Table 25. High-Rate Lithium-Ion Polymer Battery Market: Company Product Application Footprint

Table 26. High-Rate Lithium-Ion Polymer Battery Competitive Factors

Table 27. High-Rate Lithium-Ion Polymer Battery New Entrant and Capacity Expansion Plans

Table 28. High-Rate Lithium-Ion Polymer Battery Mergers & Acquisitions Activity

Table 29. United States VS China High-Rate Lithium-Ion Polymer Battery Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-Rate Lithium-Ion Polymer Battery Production Comparison, (2021 & 2025 & 2032) & (KWh)

Table 31. United States VS China High-Rate Lithium-Ion Polymer Battery Consumption Comparison, (2021 & 2025 & 2032) & (KWh)

Table 32. United States Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production (2021-2026) & (KWh)

Table 36. United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share (2021-2026)

Table 37. China Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production, (2021-2026) & (KWh)

Table 41. China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share (2021-2026)

Table 42. Rest of World Based High-Rate Lithium-Ion Polymer Battery Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production, (2021-2026) & (KWh)

Table 46. Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share (2021-2026)

Table 47. World High-Rate Lithium-Ion Polymer Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-Rate Lithium-Ion Polymer Battery Production by Type (2021-2026) & (KWh)

Table 49. World High-Rate Lithium-Ion Polymer Battery Production by Type (2027-2032) & (KWh)

Table 50. World High-Rate Lithium-Ion Polymer Battery Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-Rate Lithium-Ion Polymer Battery Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-Rate Lithium-Ion Polymer Battery Average Price by Type (2021-2026) & (US\$/KWh)

Table 53. World High-Rate Lithium-Ion Polymer Battery Average Price by Type (2027-2032) & (US\$/KWh)

Table 54. World High-Rate Lithium-Ion Polymer Battery Production Value by Electrolyte, (USD Million), 2021 & 2025 & 2032

Table 55. World High-Rate Lithium-Ion Polymer Battery Production by Electrolyte (2021-2026) & (KWh)

Table 56. World High-Rate Lithium-Ion Polymer Battery Production by Electrolyte (2027-2032) & (KWh)

Table 57. World High-Rate Lithium-Ion Polymer Battery Production Value by Electrolyte (2021-2026) & (USD Million)

Table 58. World High-Rate Lithium-Ion Polymer Battery Production Value by Electrolyte (2027-2032) & (USD Million)

Table 59. World High-Rate Lithium-Ion Polymer Battery Average Price by Electrolyte

(2021-2026) & (US\$/KWh)

Table 60. World High-Rate Lithium-Ion Polymer Battery Average Price by Electrolyte (2027-2032) & (US\$/KWh)

Table 61. World High-Rate Lithium-Ion Polymer Battery Production Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Table 62. World High-Rate Lithium-Ion Polymer Battery Production by Discharge Rate (2021-2026) & (KWh)

Table 63. World High-Rate Lithium-Ion Polymer Battery Production by Discharge Rate (2027-2032) & (KWh)

Table 64. World High-Rate Lithium-Ion Polymer Battery Production Value by Discharge Rate (2021-2026) & (USD Million)

Table 65. World High-Rate Lithium-Ion Polymer Battery Production Value by Discharge Rate (2027-2032) & (USD Million)

Table 66. World High-Rate Lithium-Ion Polymer Battery Average Price by Discharge Rate (2021-2026) & (US\$/KWh)

Table 67. World High-Rate Lithium-Ion Polymer Battery Average Price by Discharge Rate (2027-2032) & (US\$/KWh)

Table 68. World High-Rate Lithium-Ion Polymer Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High-Rate Lithium-Ion Polymer Battery Production by Application (2021-2026) & (KWh)

Table 70. World High-Rate Lithium-Ion Polymer Battery Production by Application (2027-2032) & (KWh)

Table 71. World High-Rate Lithium-Ion Polymer Battery Production Value by Application (2021-2026) & (USD Million)

Table 72. World High-Rate Lithium-Ion Polymer Battery Production Value by Application (2027-2032) & (USD Million)

Table 73. World High-Rate Lithium-Ion Polymer Battery Average Price by Application (2021-2026) & (US\$/KWh)

Table 74. World High-Rate Lithium-Ion Polymer Battery Average Price by Application (2027-2032) & (US\$/KWh)

Table 75. Amperex Technology Limited (China) Basic Information, Manufacturing Base and Competitors

Table 76. Amperex Technology Limited (China) Major Business

Table 77. Amperex Technology Limited (China) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 78. Amperex Technology Limited (China) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Amperex Technology Limited (China) Recent Developments/Updates

Table 80. Amperex Technology Limited (China) Competitive Strengths & Weaknesses

Table 81. Shenzhen Grepow Battery (China) Basic Information, Manufacturing Base and Competitors

Table 82. Shenzhen Grepow Battery (China) Major Business

Table 83. Shenzhen Grepow Battery (China) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 84. Shenzhen Grepow Battery (China) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shenzhen Grepow Battery (China) Recent Developments/Updates

Table 86. Shenzhen Grepow Battery (China) Competitive Strengths & Weaknesses

Table 87. MaxAmps (USA) Basic Information, Manufacturing Base and Competitors

Table 88. MaxAmps (USA) Major Business

Table 89. MaxAmps (USA) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 90. MaxAmps (USA) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. MaxAmps (USA) Recent Developments/Updates

Table 92. MaxAmps (USA) Competitive Strengths & Weaknesses

Table 93. Epsilor (Arotech) (Israel) Basic Information, Manufacturing Base and Competitors

Table 94. Epsilor (Arotech) (Israel) Major Business

Table 95. Epsilor (Arotech) (Israel) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 96. Epsilor (Arotech) (Israel) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Epsilor (Arotech) (Israel) Recent Developments/Updates

Table 98. Epsilor (Arotech) (Israel) Competitive Strengths & Weaknesses

Table 99. Denchi Group (UK) Basic Information, Manufacturing Base and Competitors

Table 100. Denchi Group (UK) Major Business

Table 101. Denchi Group (UK) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 102. Denchi Group (UK) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Denchi Group (UK) Recent Developments/Updates

Table 104. Denchi Group (UK) Competitive Strengths & Weaknesses

Table 105. EaglePicher Technologies (USA) Basic Information, Manufacturing Base and Competitors

Table 106. EaglePicher Technologies (USA) Major Business

Table 107. EaglePicher Technologies (USA) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 108. EaglePicher Technologies (USA) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. EaglePicher Technologies (USA) Recent Developments/Updates

Table 110. EaglePicher Technologies (USA) Competitive Strengths & Weaknesses

Table 111. Amicell-Amit Industries (Israel) Basic Information, Manufacturing Base and Competitors

Table 112. Amicell-Amit Industries (Israel) Major Business

Table 113. Amicell-Amit Industries (Israel) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 114. Amicell-Amit Industries (Israel) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Amicell-Amit Industries (Israel) Recent Developments/Updates

Table 116. Amicell-Amit Industries (Israel) Competitive Strengths & Weaknesses

Table 117. RELiON Batteries (Brunswick) (USA) Basic Information, Manufacturing Base and Competitors

Table 118. RELiON Batteries (Brunswick) (USA) Major Business

Table 119. RELiON Batteries (Brunswick) (USA) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 120. RELiON Batteries (Brunswick) (USA) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. RELiON Batteries (Brunswick) (USA) Recent Developments/Updates

Table 122. RELiON Batteries (Brunswick) (USA) Competitive Strengths & Weaknesses

Table 123. Enix Power Solutions (Upergy) (France) Basic Information, Manufacturing Base and Competitors

Table 124. Enix Power Solutions (Upergy) (France) Major Business

Table 125. Enix Power Solutions (Upergy) (France) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 126. Enix Power Solutions (Upergy) (France) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Enix Power Solutions (Upergy) (France) Recent Developments/Updates

Table 128. Enix Power Solutions (Upergy) (France) Competitive Strengths & Weaknesses

Table 129. Bren-Tronics (EnerSys) (USA) Basic Information, Manufacturing Base and Competitors

Table 130. Bren-Tronics (EnerSys) (USA) Major Business

Table 131. Bren-Tronics (EnerSys) (USA) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 132. Bren-Tronics (EnerSys) (USA) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Bren-Tronics (EnerSys) (USA) Recent Developments/Updates

Table 134. Bren-Tronics (EnerSys) (USA) Competitive Strengths & Weaknesses

Table 135. DNK Power (China) Basic Information, Manufacturing Base and Competitors

Table 136. DNK Power (China) Major Business

Table 137. DNK Power (China) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 138. DNK Power (China) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. DNK Power (China) Recent Developments/Updates

Table 140. DNK Power (China) Competitive Strengths & Weaknesses

Table 141. Dan-Tech Energy (Israel) Basic Information, Manufacturing Base and Competitors

Table 142. Dan-Tech Energy (Israel) Major Business

Table 143. Dan-Tech Energy (Israel) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 144. Dan-Tech Energy (Israel) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Dan-Tech Energy (Israel) Recent Developments/Updates

Table 146. Dan-Tech Energy (Israel) Competitive Strengths & Weaknesses

Table 147. ENAX (Japan) Basic Information, Manufacturing Base and Competitors

Table 148. ENAX (Japan) Major Business

Table 149. ENAX (Japan) High-Rate Lithium-Ion Polymer Battery Product and Services

Table 150. ENAX (Japan) High-Rate Lithium-Ion Polymer Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. ENAX (Japan) Recent Developments/Updates

Table 152. ENAX (Japan) Competitive Strengths & Weaknesses

Table 153. Global Key Players of High-Rate Lithium-Ion Polymer Battery Upstream  
(Raw Materials)

Table 154. Global High-Rate Lithium-Ion Polymer Battery Typical Customers

Table 155. High-Rate Lithium-Ion Polymer Battery Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. High-Rate Lithium-Ion Polymer Battery Picture

Figure 2. World High-Rate Lithium-Ion Polymer Battery Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-Rate Lithium-Ion Polymer Battery Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-Rate Lithium-Ion Polymer Battery Production (2021-2032) & (KWh)

Figure 5. World High-Rate Lithium-Ion Polymer Battery Average Price (2021-2032) & (US\$/KWh)

Figure 6. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Region (2021-2032)

Figure 7. World High-Rate Lithium-Ion Polymer Battery Production Market Share by Region (2021-2032)

Figure 8. North America High-Rate Lithium-Ion Polymer Battery Production (2021-2032) & (KWh)

Figure 9. Europe High-Rate Lithium-Ion Polymer Battery Production (2021-2032) & (KWh)

Figure 10. China High-Rate Lithium-Ion Polymer Battery Production (2021-2032) & (KWh)

Figure 11. Japan High-Rate Lithium-Ion Polymer Battery Production (2021-2032) & (KWh)

Figure 12. High-Rate Lithium-Ion Polymer Battery Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)

Figure 15. World High-Rate Lithium-Ion Polymer Battery Consumption Market Share by Region (2021-2032)

Figure 16. United States High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)

Figure 17. China High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)

Figure 18. Europe High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)

Figure 19. Japan High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)

- Figure 20. South Korea High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)
- Figure 21. ASEAN High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)
- Figure 22. India High-Rate Lithium-Ion Polymer Battery Consumption (2021-2032) & (KWh)
- Figure 23. Producer Shipments of High-Rate Lithium-Ion Polymer Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for High-Rate Lithium-Ion Polymer Battery Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for High-Rate Lithium-Ion Polymer Battery Markets in 2025
- Figure 26. United States VS China: High-Rate Lithium-Ion Polymer Battery Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: High-Rate Lithium-Ion Polymer Battery Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: High-Rate Lithium-Ion Polymer Battery Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share 2025
- Figure 30. China Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers High-Rate Lithium-Ion Polymer Battery Production Market Share 2025
- Figure 32. World High-Rate Lithium-Ion Polymer Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Type in 2025
- Figure 34. Pouch Cell
- Figure 35. Cylindrical Hard-Case Cell
- Figure 36. Prismatic Hard-Case Cell
- Figure 37. World High-Rate Lithium-Ion Polymer Battery Production Market Share by Type (2021-2032)
- Figure 38. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Type (2021-2032)
- Figure 39. World High-Rate Lithium-Ion Polymer Battery Average Price by Type (2021-2032) & (US\$/KWh)
- Figure 40. World High-Rate Lithium-Ion Polymer Battery Production Value by Electrolyte, (USD Million), 2021 & 2025 & 2032

Figure 41. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Electrolyte in 2025

Figure 42. Liquid

Figure 43. Gel

Figure 44. Solid

Figure 45. World High-Rate Lithium-Ion Polymer Battery Production Market Share by Electrolyte (2021-2032)

Figure 46. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Electrolyte (2021-2032)

Figure 47. World High-Rate Lithium-Ion Polymer Battery Average Price by Electrolyte (2021-2032) & (US\$/KWh)

Figure 48. World High-Rate Lithium-Ion Polymer Battery Production Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Figure 49. World High-Rate Lithium-Ion Polymer Battery Production Value Market Share by Discharge Rate in 2025

Figure 50. 10C?Discharge Rate

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