

Global High-rate Small Cylindrical Cells Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB52C97BF698EN.html>

Date: July 2026

Pages: 104

Price: US\$ 3,480.00 (Single User License)

ID: GB52C97BF698EN

Abstracts

According to our (Global Info Research) latest study, the global High-rate Small Cylindrical Cells market size was valued at US\$ 14868 million in 2025 and is forecast to a readjusted size of US\$ 18952 million by 2032 with a CAGR of 3.5% during review period.

High-rate Small Cylindrical Cells are compact cylindrical lithium-ion cells designed for consumer and professional power applications that require high discharge current, fast power response, stable capacity output, and reliable pack consistency. Compared with general small cylindrical cells, their advantages lie in stronger high-rate discharge capability, better thermal stability under heavy-load operation, more stable voltage performance, mature automated manufacturing, and higher suitability for power tools, portable energy storage, and data center backup batteries. In 2025, production was approximately 10,321 million units and the average price was USD 1.4 per unit. The industry's capacity utilization rate in 2025 was about 68% and the average gross margin was around 21%. Upstream, the key materials include cathode materials, anode materials, electrolytes, and separators, with representative suppliers such as BTR, Shanshan, and Tinci Materials supporting the core material system for high-rate cylindrical lithium-ion cells. The midstream segment focuses on high-rate cell structure design, winding process control, electrode formulation optimization, electrolyte injection, formation and grading, safety testing, consistency management, thermal performance verification, and automated mass production, which together determine discharge power, heat control, cycle life, safety reliability, and cost competitiveness. Downstream, High-rate Small Cylindrical Cells are mainly used in power tools, portable energy storage, and data center backup batteries.

High-rate Small Cylindrical Cells will be increasingly driven by applications where compact size must be matched with high power output and stable thermal behavior. Power tools require instant high-current discharge and long cycle durability, while portable energy storage products need safer high-load operation and consistent pack performance. In data center backup batteries, the value shifts toward rapid response, reliability, and predictable maintenance under continuous standby conditions. As downstream products move toward higher power density and platformized battery-pack design, suppliers will compete through electrode formulation, heat-control capability, automated consistency, and quality traceability. Companies with strong process control can turn technical stability into deeper customer retention.

This report is a detailed and comprehensive analysis for global High-rate Small Cylindrical Cells market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-rate Small Cylindrical Cells market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-rate Small Cylindrical Cells market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-rate Small Cylindrical Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-rate Small Cylindrical Cells market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-rate Small Cylindrical Cells

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-rate Small Cylindrical Cells market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include EVE Energy (China), Sunpower (China), Lishen (China), BAK Battery (China), Greatpower (China), Tenpower (China), Samsung SDI (South Korea), LG Energy Solution (South Korea), Murata (Japan), Panasonic (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-rate Small Cylindrical Cells market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

21700 Battery Cells

18650 Battery Cells

Others

Market segment by Single-Cell Capacity

3000mAh

4000mAh

5000mAh

Others

Market segment by Discharge Rate

Rate

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High-rate Small Cylindrical Cells Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 21700 Battery Cells

1.3.3 18650 Battery Cells

1.3.4 Others

1.4 Market Analysis by Single-Cell Capacity

1.4.1 Overview: Global High-rate Small Cylindrical Cells Consumption Value by Single-Cell Capacity: 2021 Versus 2025 Versus 2032

1.4.2 3000mAh

1.4.3 4000mAh

1.4.4 5000mAh

1.4.5 Others

1.5 Market Analysis by Discharge Rate

1.5.1 Overview: Global High-rate Small Cylindrical Cells Consumption Value by Discharge Rate: 2021 Versus 2025 Versus 2032

1.5.2 Rate

List Of Tables

LIST OF TABLES

Table 1. Global High-rate Small Cylindrical Cells Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global High-rate Small Cylindrical Cells Consumption Value by Single-Cell Capacity, (USD Million), 2021 & 2025 & 2032

Table 3. Global High-rate Small Cylindrical Cells Consumption Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Table 4. Global High-rate Small Cylindrical Cells Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. EVE Energy (China) Basic Information, Manufacturing Base and Competitors

Table 6. EVE Energy (China) Major Business

Table 7. EVE Energy (China) High-rate Small Cylindrical Cells Product and Services

Table 8. EVE Energy (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. EVE Energy (China) Recent Developments/Updates

Table 10. Sunpower (China) Basic Information, Manufacturing Base and Competitors

Table 11. Sunpower (China) Major Business

Table 12. Sunpower (China) High-rate Small Cylindrical Cells Product and Services

Table 13. Sunpower (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Sunpower (China) Recent Developments/Updates

Table 15. Lishen (China) Basic Information, Manufacturing Base and Competitors

Table 16. Lishen (China) Major Business

Table 17. Lishen (China) High-rate Small Cylindrical Cells Product and Services

Table 18. Lishen (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Lishen (China) Recent Developments/Updates

Table 20. BAK Battery (China) Basic Information, Manufacturing Base and Competitors

Table 21. BAK Battery (China) Major Business

Table 22. BAK Battery (China) High-rate Small Cylindrical Cells Product and Services

Table 23. BAK Battery (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. BAK Battery (China) Recent Developments/Updates
Table 25. Greatpower (China) Basic Information, Manufacturing Base and Competitors
Table 26. Greatpower (China) Major Business
Table 27. Greatpower (China) High-rate Small Cylindrical Cells Product and Services
Table 28. Greatpower (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Greatpower (China) Recent Developments/Updates
Table 30. Tenpower (China) Basic Information, Manufacturing Base and Competitors
Table 31. Tenpower (China) Major Business
Table 32. Tenpower (China) High-rate Small Cylindrical Cells Product and Services
Table 33. Tenpower (China) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Tenpower (China) Recent Developments/Updates
Table 35. Samsung SDI (South Korea) Basic Information, Manufacturing Base and Competitors
Table 36. Samsung SDI (South Korea) Major Business
Table 37. Samsung SDI (South Korea) High-rate Small Cylindrical Cells Product and Services
Table 38. Samsung SDI (South Korea) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Samsung SDI (South Korea) Recent Developments/Updates
Table 40. LG Energy Solution (South Korea) Basic Information, Manufacturing Base and Competitors
Table 41. LG Energy Solution (South Korea) Major Business
Table 42. LG Energy Solution (South Korea) High-rate Small Cylindrical Cells Product and Services
Table 43. LG Energy Solution (South Korea) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. LG Energy Solution (South Korea) Recent Developments/Updates
Table 45. Murata (Japan) Basic Information, Manufacturing Base and Competitors
Table 46. Murata (Japan) Major Business
Table 47. Murata (Japan) High-rate Small Cylindrical Cells Product and Services
Table 48. Murata (Japan) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Murata (Japan) Recent Developments/Updates
Table 50. Panasonic (Japan) Basic Information, Manufacturing Base and Competitors
Table 51. Panasonic (Japan) Major Business
Table 52. Panasonic (Japan) High-rate Small Cylindrical Cells Product and Services
Table 53. Panasonic (Japan) High-rate Small Cylindrical Cells Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Panasonic (Japan) Recent Developments/Updates
Table 55. Global High-rate Small Cylindrical Cells Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 56. Global High-rate Small Cylindrical Cells Revenue by Manufacturer (2021-2026) & (USD Million)
Table 57. Global High-rate Small Cylindrical Cells Average Price by Manufacturer (2021-2026) & (US\$/Unit)
Table 58. Market Position of Manufacturers in High-rate Small Cylindrical Cells, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 59. Head Office and High-rate Small Cylindrical Cells Production Site of Key Manufacturer
Table 60. High-rate Small Cylindrical Cells Market: Company Product Type Footprint
Table 61. High-rate Small Cylindrical Cells Market: Company Product Application Footprint
Table 62. High-rate Small Cylindrical Cells New Market Entrants and Barriers to Market Entry
Table 63. High-rate Small Cylindrical Cells Mergers, Acquisition, Agreements, and Collaborations
Table 64. Global High-rate Small Cylindrical Cells Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 65. Global High-rate Small Cylindrical Cells Sales Quantity by Region (2021-2026) & (K Units)
Table 66. Global High-rate Small Cylindrical Cells Sales Quantity by Region (2027-2032) & (K Units)
Table 67. Global High-rate Small Cylindrical Cells Consumption Value by Region (2021-2026) & (USD Million)
Table 68. Global High-rate Small Cylindrical Cells Consumption Value by Region (2027-2032) & (USD Million)
Table 69. Global High-rate Small Cylindrical Cells Average Price by Region (2021-2026) & (US\$/Unit)
Table 70. Global High-rate Small Cylindrical Cells Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global High-rate Small Cylindrical Cells Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global High-rate Small Cylindrical Cells Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global High-rate Small Cylindrical Cells Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global High-rate Small Cylindrical Cells Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 78. Global High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 79. Global High-rate Small Cylindrical Cells Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global High-rate Small Cylindrical Cells Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global High-rate Small Cylindrical Cells Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global High-rate Small Cylindrical Cells Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 84. North America High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 85. North America High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 86. North America High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America High-rate Small Cylindrical Cells Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America High-rate Small Cylindrical Cells Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America High-rate Small Cylindrical Cells Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America High-rate Small Cylindrical Cells Consumption Value by

Country (2027-2032) & (USD Million)

Table 91. Europe High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Europe High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe High-rate Small Cylindrical Cells Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe High-rate Small Cylindrical Cells Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe High-rate Small Cylindrical Cells Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe High-rate Small Cylindrical Cells Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Region (2021-2026) & (K Units)

Table 104. Asia-Pacific High-rate Small Cylindrical Cells Sales Quantity by Region (2027-2032) & (K Units)

Table 105. Asia-Pacific High-rate Small Cylindrical Cells Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific High-rate Small Cylindrical Cells Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 108. South America High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 109. South America High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 110. South America High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 111. South America High-rate Small Cylindrical Cells Sales Quantity by Country (2021-2026) & (K Units)

Table 112. South America High-rate Small Cylindrical Cells Sales Quantity by Country (2027-2032) & (K Units)

Table 113. South America High-rate Small Cylindrical Cells Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America High-rate Small Cylindrical Cells Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Middle East & Africa High-rate Small Cylindrical Cells Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Middle East & Africa High-rate Small Cylindrical Cells Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa High-rate Small Cylindrical Cells Consumption Value by Country (2027-2032) & (USD Million)

Table 123. High-rate Small Cylindrical Cells Raw Material

Table 124. Key Manufacturers of High-rate Small Cylindrical Cells Raw Materials

Table 125. High-rate Small Cylindrical Cells Typical Distributors

Table 126. High-rate Small Cylindrical Cells Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. High-rate Small Cylindrical Cells Picture

Figure 2. Global High-rate Small Cylindrical Cells Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global High-rate Small Cylindrical Cells Revenue Market Share by Type in 2025

Figure 4. 21700 Battery Cells Examples

Figure 5. 18650 Battery Cells Examples

Figure 6. Others Examples

Figure 7. Global High-rate Small Cylindrical Cells Revenue by Single-Cell Capacity, (USD Million), 2021 & 2025 & 2032

Figure 8. Global High-rate Small Cylindrical Cells Revenue Market Share by Single-Cell Capacity in 2025

Figure 9. 3000mAh Examples

Figure 10. 4000mAh Examples

Figure 11. 5000mAh Examples

Figure 12. Others Examples

Figure 13. Global High-rate Small Cylindrical Cells Revenue by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Figure 14. Global High-rate Small Cylindrical Cells Revenue Market Share by Discharge Rate in 2025

Figure 15. Rate

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