

Global LFP Battery Cells for Outdoor Power Station Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LFP Battery Cells for Outdoor Power Station market size was valued at US\$ 1605 million in 2025 and is forecast to a readjusted size of US\$ 4206 million by 2032 with a CAGR of 14.6% during review period.

LFP Battery Cells for Outdoor Power Station are lithium iron phosphate rechargeable cells designed for outdoor power stations and mobile off-grid energy devices, emphasizing high safety, long cycle life, stable discharge, thermal reliability, and durable output under outdoor use conditions. Compared with LFP battery cells for general portable power stations, this product definition places greater emphasis on outdoor power scenarios such as camping, road trips, field work, emergency backup, and small equipment power supply, where safety, temperature adaptability, repeated charge-discharge performance, and pack-level reliability are critical. In 2025, the industry's capacity utilization rate was about 65%, and the average gross margin was around 20%. In 2025, production was 12 million KWh and the average price was USD 130 per KWh. Upstream, the product mainly relies on lithium iron phosphate cathode materials, graphite anode materials, lithium hexafluorophosphate electrolyte, separators, and copper foil, with representative suppliers including Dynanonic, BTR New Material Group, and Shenzhen Capchem providing core battery materials. The midstream segment focuses on cell formulation, electrode coating, cell assembly, formation and grading, consistency control, safety testing, cycle-life validation, thermal performance verification, and adaptation to outdoor power station battery modules, which together determine discharge stability, usable capacity, safety performance, service life, and system integration efficiency. Downstream demand mainly comes from all-in-one outdoor power stations and modular outdoor power stations, where compact

structure, stable energy output, long cycle life, safe operation, and battery-module adaptability are critical, with representative customers including EcoFlow, Hello Tech, and BLUETTI.

LFP Battery Cells for Outdoor Power Station will be driven by the broader use of portable energy devices in outdoor leisure, home backup, mobile work, and emergency power scenarios. All-in-one outdoor power stations require cells that provide safe operation, stable discharge, and long cycle life within compact product designs. Modular outdoor power stations raise the bar further, because battery cells must support capacity expansion, pack matching, and repeated high-load use. As users move from occasional camping use to more frequent energy storage needs, product differentiation will depend on safety consistency, cycle durability, temperature adaptability, cost control, and integration with higher-capacity power station systems.

This report is a detailed and comprehensive analysis for global LFP Battery Cells for Outdoor Power Station 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 LFP Battery Cells for Outdoor Power Station market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global LFP Battery Cells for Outdoor Power Station market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global LFP Battery Cells for Outdoor Power Station market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global LFP Battery Cells for Outdoor Power Station market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 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 LFP Battery Cells for Outdoor Power Station

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 LFP Battery Cells for Outdoor Power Station 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 CATL (China), EVE Energy (China), BYD (China), CALB (China), Gotion High-Tech (China), REPT BATTERO (China), Hithium Energy Storage (China), Great Power Energy (China), Lishen Battery (China), Farasis Energy (China), etc.

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

Market Segmentation

LFP Battery Cells for Outdoor Power Station 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

Cylindrical Cell

Pouch Cell

Prismatic Cell

Market segment by Capacity

10Ah?Capacity

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 LFP Battery Cells for Outdoor Power Station Consumption
Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Cylindrical Cell

1.3.3 Pouch Cell

1.3.4 Prismatic Cell

1.4 Market Analysis by Capacity

1.4.1 Overview: Global LFP Battery Cells for Outdoor Power Station Consumption
Value by Capacity: 2021 Versus 2025 Versus 2032

1.4.2 10Ah?Capacity

List Of Tables

LIST OF TABLES

Table 1. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Capacity, (USD Million), 2021 & 2025 & 2032

Table 3. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Discharge Rate, (USD Million), 2021 & 2025 & 2032

Table 4. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

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

Table 6. CATL (China) Major Business

Table 7. CATL (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 8. CATL (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. CATL (China) Recent Developments/Updates

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

Table 11. EVE Energy (China) Major Business

Table 12. EVE Energy (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 13. EVE Energy (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. EVE Energy (China) Recent Developments/Updates

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

Table 16. BYD (China) Major Business

Table 17. BYD (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 18. BYD (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. BYD (China) Recent Developments/Updates

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

Table 21. CALB (China) Major Business

Table 22. CALB (China) LFP Battery Cells for Outdoor Power Station Product and

Services

Table 23. CALB (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. CALB (China) Recent Developments/Updates

Table 25. Gotion High-Tech (China) Basic Information, Manufacturing Base and Competitors

Table 26. Gotion High-Tech (China) Major Business

Table 27. Gotion High-Tech (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 28. Gotion High-Tech (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Gotion High-Tech (China) Recent Developments/Updates

Table 30. REPT BATTERO (China) Basic Information, Manufacturing Base and Competitors

Table 31. REPT BATTERO (China) Major Business

Table 32. REPT BATTERO (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 33. REPT BATTERO (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. REPT BATTERO (China) Recent Developments/Updates

Table 35. Hithium Energy Storage (China) Basic Information, Manufacturing Base and Competitors

Table 36. Hithium Energy Storage (China) Major Business

Table 37. Hithium Energy Storage (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 38. Hithium Energy Storage (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Hithium Energy Storage (China) Recent Developments/Updates

Table 40. Great Power Energy (China) Basic Information, Manufacturing Base and Competitors

Table 41. Great Power Energy (China) Major Business

Table 42. Great Power Energy (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 43. Great Power Energy (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross

Margin and Market Share (2021-2026)

Table 44. Great Power Energy (China) Recent Developments/Updates

Table 45. Lishen Battery (China) Basic Information, Manufacturing Base and Competitors

Table 46. Lishen Battery (China) Major Business

Table 47. Lishen Battery (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 48. Lishen Battery (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Lishen Battery (China) Recent Developments/Updates

Table 50. Farasis Energy (China) Basic Information, Manufacturing Base and Competitors

Table 51. Farasis Energy (China) Major Business

Table 52. Farasis Energy (China) LFP Battery Cells for Outdoor Power Station Product and Services

Table 53. Farasis Energy (China) LFP Battery Cells for Outdoor Power Station Sales Quantity (KWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Farasis Energy (China) Recent Developments/Updates

Table 55. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Manufacturer (2021-2026) & (KWh)

Table 56. Global LFP Battery Cells for Outdoor Power Station Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global LFP Battery Cells for Outdoor Power Station Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 58. Market Position of Manufacturers in LFP Battery Cells for Outdoor Power Station, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and LFP Battery Cells for Outdoor Power Station Production Site of Key Manufacturer

Table 60. LFP Battery Cells for Outdoor Power Station Market: Company Product Type Footprint

Table 61. LFP Battery Cells for Outdoor Power Station Market: Company Product Application Footprint

Table 62. LFP Battery Cells for Outdoor Power Station New Market Entrants and Barriers to Market Entry

Table 63. LFP Battery Cells for Outdoor Power Station Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global LFP Battery Cells for Outdoor Power Station Consumption Value by

Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Region (2021-2026) & (KWh)

Table 66. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Region (2027-2032) & (KWh)

Table 67. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global LFP Battery Cells for Outdoor Power Station Average Price by Region (2021-2026) & (US\$/KWh)

Table 70. Global LFP Battery Cells for Outdoor Power Station Average Price by Region (2027-2032) & (US\$/KWh)

Table 71. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 72. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 73. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global LFP Battery Cells for Outdoor Power Station Average Price by Type (2021-2026) & (US\$/KWh)

Table 76. Global LFP Battery Cells for Outdoor Power Station Average Price by Type (2027-2032) & (US\$/KWh)

Table 77. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 78. Global LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 79. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global LFP Battery Cells for Outdoor Power Station Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global LFP Battery Cells for Outdoor Power Station Average Price by Application (2021-2026) & (US\$/KWh)

Table 82. Global LFP Battery Cells for Outdoor Power Station Average Price by Application (2027-2032) & (US\$/KWh)

Table 83. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 84. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 85. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 86. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 87. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2021-2026) & (KWh)

Table 88. North America LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2027-2032) & (KWh)

Table 89. North America LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 92. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 93. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 94. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 95. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2021-2026) & (KWh)

Table 96. Europe LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2027-2032) & (KWh)

Table 97. Europe LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 100. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 101. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 102. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 103. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by

Region (2021-2026) & (KWh)

Table 104. Asia-Pacific LFP Battery Cells for Outdoor Power Station Sales Quantity by Region (2027-2032) & (KWh)

Table 105. Asia-Pacific LFP Battery Cells for Outdoor Power Station Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific LFP Battery Cells for Outdoor Power Station Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 108. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 109. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 110. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 111. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2021-2026) & (KWh)

Table 112. South America LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2027-2032) & (KWh)

Table 113. South America LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2021-2026) & (KWh)

Table 116. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Type (2027-2032) & (KWh)

Table 117. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2021-2026) & (KWh)

Table 118. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Application (2027-2032) & (KWh)

Table 119. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2021-2026) & (KWh)

Table 120. Middle East & Africa LFP Battery Cells for Outdoor Power Station Sales Quantity by Country (2027-2032) & (KWh)

Table 121. Middle East & Africa LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa LFP Battery Cells for Outdoor Power Station Consumption Value by Country (2027-2032) & (USD Million)

Table 123. LFP Battery Cells for Outdoor Power Station Raw Material

Table 124. Key Manufacturers of LFP Battery Cells for Outdoor Power Station Raw Materials

Table 125. LFP Battery Cells for Outdoor Power Station Typical Distributors

Table 126. LFP Battery Cells for Outdoor Power Station Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. LFP Battery Cells for Outdoor Power Station Picture

Figure 2. Global LFP Battery Cells for Outdoor Power Station Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global LFP Battery Cells for Outdoor Power Station Revenue Market Share by Type in 2025

Figure 4. Cylindrical Cell Examples

Figure 5. Pouch Cell Examples

Figure 6. Prismatic Cell Examples

Figure 7. Global LFP Battery Cells for Outdoor Power Station Revenue by Capacity, (USD Million), 2021 & 2025 & 2032

Figure 8. Global LFP Battery Cells for Outdoor Power Station Revenue Market Share by Capacity in 2025

Figure 9. 10Ah?Capacity

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