

Global Power Battery Cell Testing Equipment 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 Power Battery Cell Testing Equipment market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

Power Battery Cells are an important part of the power battery system. The quality of each cell directly determines the stability of the power battery system and even the safety and performance of the vehicle. Therefore, high-precision and high-reliability testing equipment becomes the key to battery performance. An essential tool for development and conformance testing. High-precision testing equipment can more effectively detect various technical indicators of battery cells, especially improve the consistency of initial capacity, internal resistance, electrode electrical characteristics of power battery cells, analyze electrical connections, temperature characteristics, decay rate and other performance indicators. Inconsistencies in the above parameters will directly affect the operating lithium power battery module and result in differences in the output electrical parameters of the entire package, affecting the service life of the lithium power battery and endangering the safety of the entire vehicle operation.

China's policy on lithium-ion batteries mainly focuses on lithium-ion batteries. In 2015, in order to strengthen the management of lithium-ion battery industry and improve the development level of the industry, China formulated the Standard of Lithium-ion Battery Industry. the global sales of new energy vehicles reached 10.8 million units in 2022, with a year-on-year increase of 61.6%. In 2022, China new energy vehicle sales reached 6.8 million units, and the global share increased to 63.6%. In Q4 2022, sales penetration rate of China's new energy vehicle reached 27%, while the global average penetration rate was only 15%. Europe penetration was 19%, and North America

penetration rate was only 6%. Lithium batteries will fully benefit from the high growth of downstream demand. According to the Ministry of Industry and Information Technology, China's lithium-ion battery production reached 750 GWh in 2022, up more than 130 percent year on year. Among them, the output of lithium energy storage battery exceeded 100 GWh, and the total output value of the industry exceeded 1.2 trillion yuan. The industrial application of lithium battery was also growing rapidly. In 2022, the loading capacity of new energy vehicle power battery was about 295 GWh, and the new energy vehicle power battery was about 295 GWh. According to our research, in 2022, the overall global lithium-ion battery shipments were 957GWh, a year-on-year increase of 70%. Global vehicle power battery (EV LIB) shipments were 684GWh, a year-on-year increase of 84%; Energy storage battery (ESS LIB) shipments were 159.3GWh, a year-on-year increase of 140%.

This report is a detailed and comprehensive analysis for global Power Battery Cell Testing Equipment 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 Power Battery Cell Testing Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Power Battery Cell Testing Equipment 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 Power Battery Cell Testing Equipment 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 Power Battery Cell Testing Equipment 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:

Global Power Battery Cell Testing Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forec...

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

To assess the growth potential for Power Battery Cell Testing Equipment

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 Power Battery Cell Testing Equipment 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 MACCOR, Arbin, AVL, Megger, Chroma, Bitrode, Sinexcel Electric, Shen Zhen Shi Hengyineng Technology, Repower Technology, Shenzhen Sinrui New Energy Technology, etc.

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

Market Segmentation

Power Battery Cell Testing Equipment 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

4W-2KW

2KW Above

Market segment by Application

Power Battery Working Condition Simulation

Battery Cycle Life Test

Battery Rate Charge and Discharge Test

Battery Pulse Charge and Discharge Test

Others

Major players covered

MACCOR

Arbin

AVL

Megger

Chroma

Bitrode

Sinexcel Electric

Shen Zhen Shi Hengyineng Technology

Repower Technology

Shenzhen Sinrui New Energy Technology

Shenzhen Light Energy Technology

TET

Fuzhou Development Zone Xingyun Electronics Automation

Wuhan LAND Electronic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Power Battery Cell Testing Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Battery Cell Testing Equipment, with price, sales quantity, revenue, and global market share of Power Battery Cell Testing Equipment from 2021 to 2026.

Chapter 3, the Power Battery Cell Testing Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Battery Cell Testing Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Power Battery Cell Testing Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Power Battery Cell Testing Equipment.

Chapter 14 and 15, to describe Power Battery Cell Testing Equipment sales channel, distributors, customers, research findings and conclusion.

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