

Global Power Battery Cell Testing Device Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Power Battery Cell Testing Device market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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%.

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.

This report studies the global Power Battery Cell Testing Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Battery Cell Testing Device, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Battery Cell Testing Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Battery Cell Testing Device total production and demand, 2018-2029, (K Units)

Global Power Battery Cell Testing Device total production value, 2018-2029, (USD Million)

Global Power Battery Cell Testing Device production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Power Battery Cell Testing Device consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Power Battery Cell Testing Device domestic production, consumption, key domestic manufacturers and share

Global Power Battery Cell Testing Device production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Power Battery Cell Testing Device production by Output Power, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Power Battery Cell Testing Device production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Power Battery Cell Testing Device 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 MACCOR, Arbin, AVL, Megger, Chroma, Bitrode, Sinexcel Electric, Shen Zhen Shi Hengyineng Technology and Repower Technology, 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 Power Battery Cell Testing Device market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Output Power, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Power Battery Cell Testing Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Battery Cell Testing Device Market, Segmentation by Output Power

4W-2KW

2KW Above

Global Power Battery Cell Testing Device Market, Segmentation by Application

Power Battery Working Condition Simulation

Battery Cycle Life Test

Battery Rate Charge and Discharge Test

Battery Pulse Charge and Discharge Test

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Power Battery Cell Testing Device market?
2. What is the demand of the global Power Battery Cell Testing Device market?
3. What is the year over year growth of the global Power Battery Cell Testing Device market?
4. What is the production and production value of the global Power Battery Cell Testing Device market?
5. Who are the key producers in the global Power Battery Cell Testing Device market?

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