

Global Power Battery Pack Charging and Discharging Test System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Power Battery Pack Charging and Discharging Test System market size was valued at US\$ 638 million in 2025 and is forecast to a readjusted size of US\$ 990 million by 2032 with a CAGR of 6.2% during review period.

Power battery pack charge/discharge testing systems refer to the testing of the charging and discharging processes of power batteries. This test is a key method for measuring battery performance. By simulating the charging and discharging conditions of batteries in real-world use, it tests the battery's energy storage and release capabilities. It's a core testing device used to simulate the actual operating conditions of battery packs. Through high-precision control of voltage (40-800V), current (-600A to 600A), and temperature, it dynamically monitors and evaluates key performance parameters of the battery pack, such as capacity, energy, power, internal resistance, and cycle life, providing data support for battery R&D, production, and quality certification. The industry's gross profit margin can reach 20%-40%.

Market driving factors mainly include:

Technological iteration and performance upgrade demands: The energy density of power batteries is breaking through to 400Wh/kg, and charging speeds are increasing to 6C rates. Traditional testing equipment can no longer meet the high-precision requirements. Leading companies are shortening the testing cycle by 30% through integrated 'cell-system' testing solutions, driving up industry gross margins. For example, CATL uses an AI-driven testing system to achieve quantitative assessment of battery pack thermal runaway risk, reducing after-sales failure rates by 50%.

Forced Policy and Standard Upgrades: The global goal of carbon neutrality is accelerating the penetration rate of new energy vehicles. China's target of new energy vehicle sales accounting for 25% of total sales by 2025 is forcing battery companies to adopt high-safety testing standards. Meanwhile, the EU's Battery Regulation requires a 70% battery recycling rate by 2030, and testing equipment must support full lifecycle data traceability, driving the industry towards intelligent and green transformation.

Expanded Application Scenarios and Supply Chain Collaboration: The application of power batteries is extending from new energy vehicles to the low-altitude economy (such as electric aircraft) and energy storage systems (such as the Zhejiang in-situ solid-state energy storage power station), placing higher demands on battery cycle life (>8000 cycles) and charge/discharge efficiency (>95%). The upstream and downstream of the supply chain are accelerating technology implementation and market penetration through joint R&D (such as sharing testing process databases) and standardization (such as the CTC interface specification). For example, BYD and NIO are collaborating to develop a semi-solid-state battery testing system to support both ultra-fast charging and long range requirements.

This report is a detailed and comprehensive analysis for global Power Battery Pack Charging and Discharging Test System market. Both quantitative and qualitative analyses are presented by company, 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 Pack Charging and Discharging Test System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Power Battery Pack Charging and Discharging Test System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Power Battery Pack Charging and Discharging Test System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Power Battery Pack Charging and Discharging Test System market shares of main players, in revenue (\$ Million), 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 Power Battery Pack Charging and Discharging Test System

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 Pack Charging and Discharging Test System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ESPEC Corp, Chroma, Fujian Nebula Electronics, Arbin Instruments, Bitrode, Keysight, Digatron, Chen Tech Electric, Kikusui Electronics, Sinexcel, etc.

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

Market segmentation

Power Battery Pack Charging and Discharging Test System 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

EV Test

HEV Test

Market segment by Technology

High-Precision Testing Systems

High-Speed ??Testing Systems

Intelligent Testing Systems

Market segment by Functional Category

R&D Testing Systems

Production Testing Systems

Certification Testing Systems

Market segment by Application

New Energy Vehicles

Two-wheeled/Three-wheeled Vehicles

Market segment by players, this report covers

ESPEC Corp

Chroma

Fujian Nebula Electronics

Arbin Instruments

Bitrode

Keysight

Digatron

Chen Tech Electric

Kikusui Electronics

Sinexcel

Matsusada Precision

NH Research

PRODIGIT Electronics

WinAck Battery Technology

Myway Plus

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Power Battery Pack Charging and Discharging Test System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Power Battery Pack Charging and Discharging

Test System, with revenue, gross margin, and global market share of Power Battery Pack Charging and Discharging Test System from 2021 to 2026.

Chapter 3, the Power Battery Pack Charging and Discharging Test System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Power Battery Pack Charging and Discharging Test System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Power Battery Pack Charging and Discharging Test System.

Chapter 13, to describe Power Battery Pack Charging and Discharging Test System research findings and conclusion.

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