

Global Power Battery Pack Charging and Discharging Test System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Power Battery Pack Charging and Discharging Test System market size is predicted to grow from US\$ 607 million in 2025 to US\$ 962 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

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.

LPI (LP Information)'s newest research report, the 'Power Battery Pack Charging and Discharging Test System Industry Forecast' looks at past sales and reviews total world Power Battery Pack Charging and Discharging Test System sales in 2025, providing a comprehensive analysis by region and market sector of projected Power Battery Pack Charging and Discharging Test System sales for 2026 through 2032. With Power Battery Pack Charging and Discharging Test System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Power Battery Pack Charging and Discharging Test System industry.

This Insight Report provides a comprehensive analysis of the global Power Battery Pack Charging and Discharging Test System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Power Battery Pack Charging and Discharging Test System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Battery Pack Charging and Discharging Test System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Battery Pack Charging and Discharging Test System and breaks down the forecast by Type, by Application, geography, and market

size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Power Battery Pack Charging and Discharging Test System.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Battery Pack Charging and Discharging Test System market by product type, application, key players and key regions and countries.

Segmentation by Type:

EV Test

HEV Test

Segmentation by Technology:

High-Precision Testing Systems

High-Speed ??Testing Systems

Intelligent Testing Systems

Segmentation by Functional Category:

R&D Testing Systems

Production Testing Systems

Certification Testing Systems

Segmentation by Application:

New Energy Vehicles

Two-wheeled/Three-wheeled Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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