

# Global Power Semiconductor Test System 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 Semiconductor Test System market size was valued at US\$ 336 million in 2025 and is forecast to a readjusted size of US\$ 601 million by 2032 with a CAGR of 8.8% during review period.

A power semiconductor test system is a specialized equipment used for testing and characterizing power semiconductor devices such as diodes, transistors, MOSFETs (Metal-Oxide-Semiconductor Field-Effect Transistors), IGBTs (Insulated-Gate Bipolar Transistors), and thyristors. These devices are critical components in power electronics and are widely used in various applications, including energy conversion, motor drives, power supplies, renewable energy systems, and electric vehicles. The power semiconductor test system is designed to evaluate the electrical performance, reliability, and thermal characteristics of power semiconductor devices. It allows manufacturers to verify the functionality, electrical parameters (such as voltage, current, and power ratings), switching characteristics, efficiency, and thermal behavior of these devices under different operating conditions.

The power semiconductor test systems are mainly produced in USA, Europe, Japan and China.

The major global manufacturers of Power Semiconductor Test System include Teradyne (Lemsys), PowerTECH Co., Ltd., Advantest (CREA), Hitachi Energy, TESEC Corporation and Shandong Prime-rel Electronic Technology, etc. In 2022, the world's top six vendors accounted for approximately 54 % of the revenue.

In terms of testing application, Power Discrete Testing System holds a share of 64%. In

next few years, the Power Module Tester (IPM, PIM) will growth faster, driven by demand of SiC MOSFET modules and IGBT modules from electric vehicle (EV).

In next few years, the testing for SiC/GaN will grow fastest, with a CAGR of 22.3% during the next few years.

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

Global Power Semiconductor Test System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Power Semiconductor Test System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Power Semiconductor Test System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 Semiconductor 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 Semiconductor Test System 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 Teradyne (Lemsys), TESEC Corporation, Advantest (CREA), Hitachi Energy, NI (SET GmbH), SPEA S.p.A., Tektronix, Lorlin Test Systems, JUNO International, ITEC BV, etc.

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

## **Market Segmentation**

Power Semiconductor 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Power Module Tester (IPM, PIM)

Power Discrete Testing System

### Market segment by Application

SiC and GaN Semiconductor

Silicon Semiconductor

### Major players covered

Teradyne (Lemsys)

TESEC Corporation

Advantest (CREA)

Hitachi Energy

NI (SET GmbH)

SPEA S.p.A.

Tektronix

Lorlin Test Systems

JUNO International

ITEC BV

ipTEST Ltd

VX Instruments GmbH

ShibaSoku

STATEC

PowerTECH Co., Ltd.

Shandong Prime-rel Electronic Technology

Unisic Technology

Hefei Kewell Power System

Beijing Huafeng Test & Control Technology

POWORLD Electronic

Hangzhou Changchuan Technology

Shaoxing Hongbang Electronics Technology

Shenzhen Xinkailai Technology

Shenzhen Bronze Technologies

Wei Min Industrial

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 Semiconductor Test System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Semiconductor Test System, with price, sales quantity, revenue, and global market share of Power Semiconductor Test System from 2021 to 2026.

Chapter 3, the Power Semiconductor Test System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Semiconductor Test System 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 Semiconductor Test System 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 Semiconductor Test System.

Chapter 14 and 15, to describe Power Semiconductor Test System sales channel, distributors, customers, research findings and conclusion.

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