

# Global High Voltage Directive (HVD) Testing Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Voltage Directive (HVD) Testing market size is expected to reach \$ 593 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

High Voltage Directive (HVD) testing is a key step in verifying the performance and functionality of the high voltage detection module (HVD). This test is designed to ensure that the HVD module can accurately and reliably detect and measure the voltage level in the high voltage circuit, and quickly sound an alarm or cut off the power supply when necessary to protect the safety of equipment and personnel.

High Voltage Directive (LVD) testing is a technical means for verifying the insulation performance, electrical safety, and structural reliability of electrical products with rated voltages ranging from AC 50-1000V or DC 75-1500V by simulating extreme electrical environments (such as overvoltage, short circuits, and abnormal temperature rises). The industry's gross profit margin is approximately 28-37%.

Market drivers mainly include:

Mandatory policies and global trade demands: EU CE certification and US FCC certification require LVD testing as a mandatory condition for market access for electrical products, requiring companies to obtain a 'safety pass' through testing. Simultaneously, differences in voltage levels and safety standards among different countries in cross-border trade (such as the difference between Chinese GB standards and EU EN standards) drive testing institutions to provide multi-country certification services, expanding market demand.

Technological Iteration in the New Energy and Ultra-High Voltage (UHV) Sectors: New energy equipment such as photovoltaic inverters and electric vehicle battery packs have extremely high requirements for insulation performance, necessitating LVD testing to verify their reliability under extreme environments. In UHV transmission projects (such as  $\pm 800\text{kV}$  DC transmission), equipment must withstand electrical stresses several times its rated voltage, making dynamic simulation testing a critical step and driving demand for high-end testing services.

Enhanced Consumer Safety Awareness and Strengthened Product Responsibility: With the widespread adoption of consumer electronics such as smart homes and wearable devices, users are significantly more concerned about product electrical safety. Companies are proactively incorporating LVD testing into their R&D processes to reduce recall risks. Simultaneously, product liability laws (such as the EU's General Product Safety Directive) require manufacturers to be responsible for product safety, making test reports crucial evidence in legal disputes, further promoting the widespread adoption of testing services.

This report studies the global High Voltage Directive (HVD) Testing demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Voltage Directive (HVD) Testing, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Voltage Directive (HVD) Testing that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global High Voltage Directive (HVD) Testing total market, 2021-2032, (USD Million)

Global High Voltage Directive (HVD) Testing total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: High Voltage Directive (HVD) Testing total market, key domestic companies, and share, (USD Million)

Global High Voltage Directive (HVD) Testing revenue by player, revenue and market share 2021-2026, (USD Million)

Global High Voltage Directive (HVD) Testing total market by Type, CAGR, 2021-2032, (USD Million)

Global High Voltage Directive (HVD) Testing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global High Voltage Directive (HVD) Testing 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 SGS, UL Solutions, TUV SUD, Intertek, Repower, VDE, CVC, STC, GRGT, MCM, 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 High Voltage Directive (HVD) Testing market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Voltage Directive (HVD) Testing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Voltage Directive (HVD) Testing Market, Segmentation by Type:

Physical and Structural Safety Testing

Electrical Safety Testing

Environmental and Reliability Testing

Other

Global High Voltage Directive (HVD) Testing Market, Segmentation by Technology:

DC High Voltage Testing

Power Frequency AC Testing

Impulse High Voltage Testing

Global High Voltage Directive (HVD) Testing Market, Segmentation by Function Category:

Compliance Testing

R&D Verification Testing

Fault Diagnosis Testing

Global High Voltage Directive (HVD) Testing Market, Segmentation by Application:

Medical

Consumer

Industrial

Household

Other

### Companies Profiled:

SGS

UL Solutions

TUV SUD

Intertek

Repower

VDE

CVC

STC

GRGT

MCM

GTS-lab

Uonetest

HX-lab

Guide-cert

### Key Questions Answered

1. How big is the global High Voltage Directive (HVD) Testing market?
2. What is the demand of the global High Voltage Directive (HVD) Testing market?
3. What is the year over year growth of the global High Voltage Directive (HVD) Testing market?
4. What is the total value of the global High Voltage Directive (HVD) Testing market?

5. Who are the Major Players in the global High Voltage Directive (HVD) Testing market?
6. What are the growth factors driving the market demand?

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