

# Global Planar Signal BMS Transformer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Planar Signal BMS Transformer market size is expected to reach \$ 192 million by 2032, rising at a market growth of 15.9% CAGR during the forecast period (2026-2032).

Planar Signal BMS Transformer is a low-profile magnetic component designed for signal transmission and electrical isolation in battery management systems, utilizing planar winding structures and flat magnetic architectures to achieve stable signal coupling, voltage separation, and reliable communication transmission within compact battery control modules. Compared with conventional wire-wound transformers, it provides advantages in thermal efficiency, compact integration, lower profile height, and electromagnetic compatibility, making it suitable for highly integrated electronic systems used in electric vehicles and energy storage equipment. Its advantages include compact structure, reliable insulation performance, strong electromagnetic interference resistance, stable signal transmission, and enhanced battery system safety. In 2025, production was 82.5 million units and the average price was USD 0.8 per unit. The industry's capacity utilization rate in 2025 was about 73% and the average gross margin was around 30%. Upstream, key raw materials include magnetic core materials and winding conductors, with representative suppliers such as TDK, Murata Manufacturing, VAC, Proterial, Furukawa Electric, and Tongling Nonferrous Metals providing essential materials. The midstream segment focuses on planar magnetic structure design, multilayer winding layout optimization, insulation structure engineering, electromagnetic compatibility design, thermal management, reliability testing, and automotive-grade validation, which determine insulation performance, signal stability, thermal efficiency, and long-term durability. Downstream, Planar Signal BMS Transformer is mainly used in automotive and energy storage applications, with representative customers including Tesla, Toyota, Volkswagen, CATL, BYD, LG Energy

Solution, Panasonic, and Sungrow.

Planar Signal BMS Transformer will gain more application space as electric vehicles and energy storage systems move toward thinner battery control modules, higher integration density, and more complex high-voltage communication architectures. Its planar structure supports efficient thermal dissipation, compact installation, and stable signal isolation within limited board space. Future development will be driven by 400V and 800V battery platforms, integrated battery management electronics, and high-density power control systems, with product evolution focusing on lower profile height, stronger electromagnetic compatibility, improved thermal efficiency, and long-term signal stability.

This report studies the global Planar Signal BMS Transformer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Planar Signal BMS Transformer 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 Planar Signal BMS Transformer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Planar Signal BMS Transformer total production and demand, 2021-2032, (K Units)

Global Planar Signal BMS Transformer total production value, 2021-2032, (USD Million)

Global Planar Signal BMS Transformer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Planar Signal BMS Transformer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Planar Signal BMS Transformer domestic production, consumption, key domestic manufacturers and share

Global Planar Signal BMS Transformer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Planar Signal BMS Transformer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Planar Signal BMS Transformer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Planar Signal BMS Transformer 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 TDK Corporation (Japan), Sumida Corporation (Japan), Murata Manufacturing (Japan), Tamura Corporation (Japan), Tokin Corporation (Japan), W?rth Elektronik (Germany), Myrra (France), Bourns Inc. (USA), Coilcraft Inc. (USA), Sunlord Electronics (China), 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 Planar Signal BMS Transformer 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 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 Planar Signal BMS Transformer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Planar Signal BMS Transformer Market, Segmentation by Type:

500Vdc

1000Vdc

1500Vdc

Others

### Global Planar Signal BMS Transformer Market, Segmentation by Switching Frequency:

100-500kHz

500kHz-1MHz

Others

### Global Planar Signal BMS Transformer Market, Segmentation by Output Configuration:

Single Output

Dual Output

Multiple Output

### Global Planar Signal BMS Transformer Market, Segmentation by Application:

Automotive

Energy Storage System

Others

### Companies Profiled:

TDK Corporation (Japan)

Sumida Corporation (Japan)

Murata Manufacturing (Japan)

Tamura Corporation (Japan)

Tokin Corporation (Japan)

W?rth Elektronik (Germany)

Myrra (France)

Bourns Inc. (USA)

Coilcraft Inc. (USA)

Sunlord Electronics (China)

Hongfa Technology (China)

Coilmaster Electronics (China)

#### Key Questions Answered:

1. How big is the global Planar Signal BMS Transformer market?
2. What is the demand of the global Planar Signal BMS Transformer market?
3. What is the year over year growth of the global Planar Signal BMS Transformer market?
4. What is the production and production value of the global Planar Signal BMS Transformer market?
5. Who are the key producers in the global Planar Signal BMS Transformer market?
6. What are the growth factors driving the market demand?

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