

Global Automotive Grade Power Semiconductor Module Cooling Substrate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Grade Power Semiconductor Module Cooling Substrate market size is expected to reach \$ 951 million by 2032, rising at a market growth of 13.4% CAGR during the forecast period (2026-2032).

An automotive-grade power semiconductor module cooling substrate is a high thermal conductivity component designed for EV power systems and traction inverters (e.g., IGBT or SiC MOSFET modules). Positioned between the power device and the cooling unit, it efficiently transfers and dissipates heat generated during operation. These substrates meet automotive-grade standards (e.g., AEC-Q101/Q100), offering high thermal resistance, moisture and thermal shock durability.

Upstream inputs center on copper stock, AlSiC/MMC materials, plating/brazing consumables, and forging/CNC tooling & equipment. Downstream, the baseplate is assembled into power modules and then integrated by Tier-1s into traction inverters and other power electronics.

In 2025, global automotive grade power semiconductor module cooling substrate production reached approximately 36 million units, with an average global market price is \$10 per unit.

An automotive-grade power semiconductor module cooling substrate is a critical thermal-path component in electrified powertrains (traction inverters, OBCs, DC/DC converters, and e-compressor drives). It directly determines junction temperature, thermal-cycling lifetime, achievable power density, and system-level reliability.

Positioned between the die/package stack and the cooling hardware, it serves as a multi-functional platform for heat spreading and conduction, electrical insulation (in combination with internal substrates), mechanical support, and thermo-mechanical stress management?working together with thermal interface materials (TIM) and cold plates/housings to dissipate heat from IGBTs and SiC MOSFETs. As electrification

advances, higher thermal flux, faster switching, and stricter reliability targets push the cooling substrate from a 'material part' into a 'co-engineered thermal/mechanical/electrical platform.'

Technology evolution is driven by two major vectors. First, materials and structures continue moving toward lower thermal resistance and better stress compatibility, spanning metallic baseplates, composite options such as AlSiC-like solutions, and reliability-oriented structural design. Second, cooling architectures increasingly pursue tighter thermal coupling and reduced heat-path penalties, using optimized baseplate geometries or enhanced heat-transfer features (e.g., pin/fin-style concepts or micro-structured paths) to lower temperature rise. In parallel, internal electrical insulation and mechanical integrity are strengthened via ceramic-based substrates (e.g., DBC/AMB stacks) and improved metallization and joining processes, targeting higher dielectric robustness and fatigue resistance. The overarching direction is clear: higher power density needs shorter thermal paths and lower thermal resistance; higher lifetime needs lower thermo-mechanical stress and more fatigue-resilient interfaces and joints. Demand is fundamentally driven by rising power levels, increasing SiC penetration, broader adoption of high-voltage platforms, and the push for higher efficiency and lightweighting. SiC modules, with higher switching frequency and thermal flux, impose stricter requirements on thermal paths and accelerate innovation in substrate materials and cooling concepts. Meanwhile, platform standardization and mass production emphasize manufacturability, consistency, and cost curves—making 'scalable advanced structures' the real battlefield. System-level co-optimization also becomes central, as OEMs increasingly care about overall efficiency, pressure-drop and pumping losses, and NVH effects associated with coolant flow, linking substrate decisions directly to cooling system design.

This report studies the global Automotive Grade Power Semiconductor Module Cooling Substrate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade Power Semiconductor Module Cooling Substrate 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 Automotive Grade Power Semiconductor Module Cooling Substrate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade Power Semiconductor Module Cooling Substrate total production and demand, 2021-2032, (K Units)

Global Automotive Grade Power Semiconductor Module Cooling Substrate total production value, 2021-2032, (USD Million)

Global Automotive Grade Power Semiconductor Module Cooling Substrate production

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

Global Automotive Grade Power Semiconductor Module Cooling Substrate
consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Grade Power Semiconductor Module Cooling Substrate
domestic production, consumption, key domestic manufacturers and share

Global Automotive Grade Power Semiconductor Module Cooling Substrate production
by manufacturer, production, price, value and market share 2021-2026, (USD Million) &
(K Units)

Global Automotive Grade Power Semiconductor Module Cooling Substrate production
by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Grade Power Semiconductor Module Cooling Substrate production
by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Grade Power Semiconductor
Module Cooling Substrate 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 Huangshan Googe, Heatsink Advanced Materials, Kunshan Gootage Thermal
Technology, Dana Incorporated, Jentech Precision Industrial, Amulaire Thermal
Technology, TAIWA CO., Ltd., Wieland Microcool, Jiangyin Saiying Electron, Suzhou
Haoli Electronic Technology, 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 Automotive Grade Power Semiconductor Module Cooling
Substrate 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 Automotive Grade Power Semiconductor Module Cooling Substrate Market, By
Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade Power Semiconductor Module Cooling Substrate Market,
Segmentation by Type:

Pin-fin Baseplate

Flat Baseplate

Global Automotive Grade Power Semiconductor Module Cooling Substrate Market,
Segmentation by Material:

Cu Baseplate

AlSiC Baseplate

Other

Global Automotive Grade Power Semiconductor Module Cooling Substrate Market,
Segmentation by Module:

IGBT Module

SiC MOSFET Module

Global Automotive Grade Power Semiconductor Module Cooling Substrate Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

Huangshan Googe

Heatsink Advanced Materials

Kunshan Gootage Thermal Technology

Dana Incorporated

Jentech Precision Industrial

Amulaire Thermal Technology

TAIWA CO., Ltd.

Wieland Microcool

Jiangyin Saiying Electron

Suzhou Haoli Electronic Technology

Sitritec Thermal Control Materials

Key Questions Answered:

1. How big is the global Automotive Grade Power Semiconductor Module Cooling Substrate market?
2. What is the demand of the global Automotive Grade Power Semiconductor Module Cooling Substrate market?
3. What is the year over year growth of the global Automotive Grade Power

Semiconductor Module Cooling Substrate market?

4. What is the production and production value of the global Automotive Grade Power Semiconductor Module Cooling Substrate market?

5. Who are the key producers in the global Automotive Grade Power Semiconductor Module Cooling Substrate market?

6. What are the growth factors driving the market demand?

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