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Global EV IGBT Modules Heatsink Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV IGBT Modules Heatsink market size is expected to reach $ 636 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).
EV IGBT modules heatsink refers to a thermal management component specifically designed to dissipate the heat generated by IGBT (Insulated Gate Bipolar Transistor) modules used in electric vehicle. These heatsinks ensure the stable operation of power electronics such as inverters, DC-DC converters, and onboard chargers by effectively transferring heat away from the semiconductor junctions to maintain safe operating temperatures.
The value chain spans metals and alloys, seals/coatings, joining processes, TIM and coolant systems upstream; cold-plate/heatsink manufacturing and inspection midstream; and downstream power-module makers and Tier-1 e-drive system integrators that validate performance under automotive reliability regimes.
In 2025, global EV IGBT modules heatsink production reached approximately 29 million units, with an average global market price is $10 per unit.
In Electric vehicle, IGBT modules are widely adopted as core power devices in the powertrain system. Their efficient operation relies heavily on effective thermal management, with the heatsink playing a critical role in ensuring the reliability, longevity, and overall performance of the IGBT module and the vehicle.
Currently, mainstream IGBT heatsink are mainly categorized into flat-base and pin-fin types. Flat-base heatsinks feature smooth surfaces, typically made from high-thermal-conductivity aluminum alloys or copper. These are attached to the IGBT module via press-fitting or bolts, ensuring close contact for efficient heat conduction. Characterized by simple structure and low manufacturing cost, flat-base heatsinks are suitable for low thermal density applications, such as hybrid vehicle power modules and on-board chargers (OBCs).
In contrast, pin-fin heatsinks employ densely arranged metal pins or columns to

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enhance heat exchange through liquid or air cooling. They are particularly suited for high-current, high heat-flux scenarios. Key power components such as motor control units (MCUs), motor controllers, and main inverter systems typically use pin-fin structures combined with cold plates to achieve high-performance thermal dissipation. From an application standpoint, these heatsinks are widely used in motor controllers (MCUs), DC/AC inverters, OBC charging modules, and DC/DC converters in battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). As NEVs evolve toward higher voltage and greater power output, IGBT modules are becoming increasingly integrated, imposing new demands on heatsinks for lightweight construction, compact design, and efficient thermal conductivity.

Looking ahead, with SiC devices gradually replacing traditional IGBTs, further improvements in thermal resistance control and structural compatibility are expected. This will drive the broader adoption of liquid cooling and hybrid cooling technologies in EVs. As the demand for high-voltage, high-frequency, and high-power-density IGBT modules continues to rise, modular and integrated heatsink designs are becoming the trend, advancing toward lightweight, highly integrated structures with multi-channel flow paths.

This report studies the global EV IGBT Modules Heatsink production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV IGBT Modules Heatsink 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 EV IGBT Modules Heatsink that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EV IGBT Modules Heatsink total production and demand, 2021-2032, (K Units)

Global EV IGBT Modules Heatsink total production value, 2021-2032, (USD Million)

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

Global EV IGBT Modules Heatsink consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: EV IGBT Modules Heatsink domestic production, consumption, key domestic manufacturers and share

Global EV IGBT Modules Heatsink production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global EV IGBT Modules Heatsink production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global EV IGBT Modules Heatsink production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global EV IGBT Modules Heatsink 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 EV IGBT Modules Heatsink 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 EV IGBT Modules Heatsink Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV IGBT Modules Heatsink Market, Segmentation by Type:

Flat-base Heat Sink

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Pin-fin Heat Sink

Global EV IGBT Modules Heatsink Market, Segmentation by Material:

Cu Baseplate

AlSIC Baseplate

Other

Global EV IGBT Modules Heatsink Market, Segmentation by Vehicle:

Passenger Car

Commercial Vehicle

Global EV IGBT Modules Heatsink Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

Huangshan Googe

Heatsink Advanced Materials

Kunshan Gootage Thermal Technology

Dana Incorporated

Jentech Precision Industrial

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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 EV IGBT Modules Heatsink market?
2. What is the demand of the global EV IGBT Modules Heatsink market?
3. What is the year over year growth of the global EV IGBT Modules Heatsink market?
4. What is the production and production value of the global EV IGBT Modules Heatsink market?
5. Who are the key producers in the global EV IGBT Modules Heatsink market?
6. What are the growth factors driving the market demand?

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