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Global Transfer Molded SiC Power Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Transfer Molded SiC Power Module market size is expected to reach $ 4920 million by 2032, rising at a market growth of 22.2% CAGR during the forecast period (2026-2032).

Transfer Molded SiC Power Modules are power modules built around SiC MOSFETs, and in some cases paired SiC diodes, using molded / transfer-molded / overmolded package architectures rather than conventional gel-filled, potted, or open-case module formats. The value proposition is not limited to a packaging change. It is fundamentally a platform upgrade that combines higher power density, lower parasitic inductance, improved thermal efficiency, more compact form factors, better manufacturability, and stronger suitability for automotive-grade qualification. Public product positioning from leading vendors reflects this clearly: STMicroelectronics markets ACEPACK DMT-32 as a molded SiC module for OBC, DC-DC and auxiliary automotive/industrial uses; onsemi positions APM32 as a transfer-molded SiC module family for high-power onboard chargers; ROHM has extended its molded SiC lineup through TRCDRIVE pack?, HSDIP20 and DOT-247; and Mitsubishi Electric?s J3-T-PM explicitly identifies the transfer-molded route as a compact automotive power-module solution. In practical industry terms, the category has evolved from a packaging niche into a high-end power-electronics platform where device technology, package design, cooling architecture, interconnect scheme and system integration are co-optimized.

The growth profile indicates that the industry is transitioning from the very volatile, early-stage hyper-growth phase into a still-high-growth industrialization phase, rather than approaching maturity. The core demand engine remains vehicle electrification. According to the IEA, global EV sales exceeded 17 million units in 2024, surpassed 20% share of global light-vehicle sales, and are expected to exceed 20 million units in

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2025, with first-quarter 2025 EV sales up 35% year on year. At the same time, product development is widening from OBC/DC-DC into traction inverters and adjacent high-efficiency conversion applications, while leading manufacturers are expanding vertically integrated SiC ecosystems and 200mm manufacturing programs. The medium-term industry outlook therefore remains structurally positive, supported by continued EV penetration, 1200V platform deepening, packaging-driven system value creation, and a broader industrialization of SiC-based high-efficiency power conversion.

By voltage class, the market is highly concentrated around the 1200V segment, which accounts for roughly 90% of industry revenue and is expected to remain the dominant product platform through the forecast period. The 650?900V segment remains relevant in selected 400V vehicle architectures and medium-power converter designs, but its share is structurally smaller and trends toward the high-single-digit range over time. 1700V and above remains a niche segment, mainly serving specialized high-voltage industrial, traction, grid and heavy-duty applications. This structure is consistent with public product portfolios. ST?s molded SiC platform centers on 650V and 1200V but is commercially anchored in 1200V automotive use cases; ROHM?s newest molded module roadmap is concentrated in 750V and 1200V; Bosch?s automotive SiC module portfolio addresses 750V and 1200V EV inverter architectures; while Mitsubishi Electric and Fuji Electric retain capabilities in higher-voltage SiC module classes for specialized applications rather than mainstream transfer-molded automotive scale. The commercial implication is clear: the market is not broadening evenly across voltage classes, but instead is consolidating around the most scalable automotive and electrification platform voltages, with 1200V as the long-duration industry standard and lower- or higher-voltage bands serving more selective roles.

The application mix is now overwhelmingly dominated by automotive, whose revenue share has already risen into the mid-to-high 80% range and is projected to move above 90% by the early 2030s. This is a materially more concentrated structure than in many other power-semiconductor categories. The main adoption points are traction inverters, onboard chargers, HV DC/DC converters, auxiliary power stages, fluid pumps, and thermal-management subsystems, all of which benefit directly from the package-level advantages of transfer-molded SiC modules. Public product targeting confirms this concentration: ST?s ACEPACK DMT-32 is positioned for OBC, DC-DC and EV auxiliaries; onsemi?s APM32 directly addresses high-power OBC; Bosch?s SiC module offering is aimed at inverter, OBC and DC/DC architectures; and ROHM?s HSDIP20 family was explicitly developed for PFC and LLC stages in xEV onboard chargers. Renewable energy, storage, industrial motor drives, UPS, data-center power and other industrial uses still matter strategically, but increasingly function as the second growth

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curve rather than the primary revenue anchor. In other words, the main incremental opportunity is not broad application diversification, but deeper penetration within vehicle power architectures, especially as high-voltage platforms proliferate and OEMs push harder on efficiency, thermal performance and packaging density.

The competitive landscape is shifting from a single-leader dominated structure to a more plural market led by incumbent international suppliers but increasingly challenged by fast-rising Chinese players. STMicroelectronics remains the market leader, but its share has been declining as competitors scale faster. onsemi has emerged as the most visible share gainer in transfer-molded automotive power modules, while Wolfspeed retains strategic importance through SiC technology depth and upstream positioning. Bosch has become a more consequential participant through its automotive inverter-centric SiC module platforms, and Japanese suppliers such as ROHM, Mitsubishi Electric, Fuji Electric and DENSO continue to matter in automotive and high-reliability power electronics. On the China side, the competitive field is broadening quickly, led by companies such as BYD Semiconductor (??????), SiEn Integrated, STARPOWER, BASiC Semiconductor, Suzhou Sico Semiconductor, CRRC Times Electric, Guangdong AccoPower Semiconductor, CR Micro and others. The next phase of competitive differentiation is likely to depend less on headline device performance alone and more on platform definition, AQG-324-capable qualification, long-cycle customer design-ins, assembly consistency, yield improvement, and cost-down execution across the full module value chain.

Regionally, the market is becoming increasingly China-centric on the demand side, while manufacturing is shifting from a historically Europe-heavy structure toward a more multipolar footprint. China has already become the largest end-market and is expected to further widen its lead over the forecast period. Europe remains the second-largest demand center, underpinned by automotive electrification and industrial electrification, while North America remains important but relatively smaller in end-market share than in upstream and manufacturing significance. On the supply side, Europe still holds the leading production position today, thanks to long-established automotive power-module ecosystems and companies such as ST, Bosch, and other European-linked production footprints. However, China is rapidly building share and is on track to become the most important incremental manufacturing base over the medium term. North America retains strategic relevance through advanced SiC materials and manufacturing programs, while Japan remains a meaningful high-reliability and high-voltage specialty production base. This regional evolution is consistent with both EV market geography and supplier capital allocation: ST is building out the Catania SiC Campus as a vertically integrated site from substrate to module; Bosch continues to industrialize its automotive SiC module

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platforms; and China?s accelerating EV and charging ecosystem is creating the strongest local pull for domestic transfer-molded SiC module demand and manufacturing localization.

The global Transfer Molded SiC Power Module industry is entering a decisive scale-up decade. Market expansion remains robust, the 1200V platform is firmly established as the dominant commercial standard, automotive remains the overwhelming demand anchor, and China is moving toward the center of both consumption and incremental manufacturing. At the same time, the industry is becoming more competitive and more industrialized: the key battle is shifting away from whether molded SiC modules will be adopted, and toward which suppliers can industrialize them at automotive grade, at scale, and at acceptable cost. The most likely medium-term industry trajectory is continued rapid growth led by EV traction-side and charging-side applications, followed by broader adoption in charging infrastructure, storage, industrial power conversion and selected high-efficiency adjacent segments. Over the next five to ten years, Transfer Molded SiC Power Modules are positioned to remain one of the most attractive and strategically important growth segments within the global power semiconductor landscape.

This report studies the global Transfer Molded SiC Power Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Transfer Molded SiC Power Module 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 Transfer Molded SiC Power Module that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Transfer Molded SiC Power Module total production and demand, 2021-2032, (K Units)
Global Transfer Molded SiC Power Module total production value, 2021-2032, (USD Million)
Global Transfer Molded SiC Power Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Transfer Molded SiC Power Module consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Transfer Molded SiC Power Module domestic production, consumption, key domestic manufacturers and share

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Global Transfer Molded SiC Power Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Transfer Molded SiC Power Module production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Transfer Molded SiC Power Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Transfer Molded SiC Power Module 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 STMicroelectronics, onsemi, Wolfspeed, Bosch, Rohm, BYD Semiconductor, Guangdong AccoPower Semiconductor, United Nova Technology (UNT), BASiC Semiconductor, Zhuzhou CRRC Times Electric, 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 Transfer Molded SiC Power Module 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 Voltage, 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 Transfer Molded SiC Power Module Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Transfer Molded SiC Power Module Market, Segmentation by Voltage:

1200V Transfer Molded SiC Module

650?900V Transfer Molded SiC Module

1700V and Above Transfer Molded SiC Module

Global Transfer Molded SiC Power Module Market, Segmentation by Topology:

Sixpack

Half-bridge

Full-Bridge

Others

Global Transfer Molded SiC Power Module Market, Segmentation by Application:

Automotive

Industrial

Household Appliances

PV/Wind Power/Energy Storage/Power Grid

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UPS/Data Center/Communication

Others

Companies Profiled:

STMicroelectronics

onsemi

Wolfspeed

Bosch

Rohm

BYD Semiconductor

Guangdong AccoPower Semiconductor

United Nova Technology (UNT)

BASiC Semiconductor

Zhuzhou CRRC Times Electric

Suzhou Sko Semiconductor

Fuji Electric

StarPower

Denso

InventChip Technology (IVCT)

Shenzhen Aishite Technology

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SanRex

Hitachi Energy

Suzhou Xizhi Technology

SemiQ

Leadrive Technology

Toshiba

China Resources Microelectronics Limited

Archimedes Semiconductor (Hefei)

Key Questions Answered:

1. How big is the global Transfer Molded SiC Power Module market?
2. What is the demand of the global Transfer Molded SiC Power Module market?
3. What is the year over year growth of the global Transfer Molded SiC Power Module market?
4. What is the production and production value of the global Transfer Molded SiC Power Module market?
5. Who are the key producers in the global Transfer Molded SiC Power Module market?
6. What are the growth factors driving the market demand?

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