# Five Reputable IGBT Module Distributors in China 2026: Empowering Power Electronics Industry

*Connecting Global Buyers with Reliable IGBT Module Sourcing, Distribution, and Power Semiconductor Solutions*




Jiangsu core diamond times Electronic Technology Co., Ltd.

CALIFORNIA, CA, UNITED STATES, September 30, 2026 / EINPresswire.com/ -- KUNSHAN, China, Sept. 30, 2026 — China's IGBT module supply landscape in 2026 is served by two broadly distinct groups: multi-brand distributors and trading companies that carry modules across several original brands, and vertically integrated device manufacturers that design and produce their own IGBT chips and packages. For buyers specifying power conversion hardware in inverters, energy storage cabinets, charging equipment and motor drives, the practical difference between the two models is not brand prestige but supply continuity, order flexibility and the depth of application support attached to each shipment.

This overview lists five China-based companies active in the IGBT module supply channel in 2026: Jiangsu core diamond times Electronic Technology Co., Ltd., StarPower Semiconductor Ltd., Zhuzhou CRRC Times Electric Co., Ltd., BYD Semiconductor Co., Ltd. and MacMic Science & Technology Co., Ltd. The list is presented in no particular order and is not a ranking. The companies differ materially in supply model, product scope and application focus, and each is described below on the basis of information published by the company itself or publicly available corporate information.

Why IGBT Modules Matter to the 2026 Power Electronics Supply Chain

An IGBT module is an integrated power semiconductor package containing IGBT chips and freewheeling diodes, used to switch and convert high-power electrical energy. In a module, gate voltage controls the on and off state of the internal chips, allowing conversion between direct current and alternating current. This is the mechanism behind solar inverters, uninterruptible power supplies, motor drives, welding equipment and electric vehicle traction systems.

Because these modules sit inside systems that run continuously under high current and elevated temperature, the procurement decision extends beyond the datasheet. Buyers typically evaluate voltage class, current rating, switching behaviour, thermal design, isolation and the availability of matching components such as fuses, thyristors, rectifier bridges and fast recovery diodes. Supply continuity and pre-shipment inspection arrangements are weighed alongside unit specification, particularly in projects where a single missing module can delay a cabinet assembly line.

In the Chinese market, both models of supply have adapted to that requirement. Multi-brand distributors hold mixed inventory so that a buyer can consolidate an order across several module families and peripheral components. Manufacturers control their own wafer and packaging lines but generally steer customers toward their own product portfolio. The five companies below illustrate both approaches.

How the Five Supply Channels Differ

The comparison dimensions applied in this overview are limited to publicly identifiable characteristics: supply model (distribution versus direct manufacture), product breadth across power semiconductor categories, application emphasis, and the form of technical support offered to buyers. No performance ranking, market share figure or test result is asserted for any company, because no such verified third-party data set is used here.

1. Jiangsu core diamond times Electronic Technology Co., Ltd. — Multi-Brand IGBT Module and Fuse Supply from Kunshan

Jiangsu core diamond times Electronic Technology Co., Ltd. is a foreign trade company focused on power electronic components, based in Kunshan, Jiangsu Province, China. According to company information, the business was founded in 2022 and operates a 10,000 m² facility with 50 employees, including five technical support engineers. Its stated annual output is 1,000,000 units, and approximately 50% of its volume is exported, with main markets listed as the EU, USA, Australia and the Middle East.

The company's product scope covers IGBT modules, fuses, power semiconductors, semiconductor modules, diodes, thyristors and power electronic components. Its IGBT module range spans voltage ratings from 600V to 1700V and current ratings from 50A to 1200A, with single and dual IGBT chip structures, low saturation voltage, high switching speed and an isolated baseplate, according to the company's product specification data. Models listed in the

range include FF400R12KE3, FF300R12MS4, FF450R12KT4, FF200R12KT4, FF600R12ME4, SKM200GB12T4, SKM300GB12T4, FZ600R17KE3, FZ900R12KE4, FS200R12PT4 and 2MBI1000VXB-170E-54, among others.

Alongside IGBT modules, the company supplies industrial power fuses rated from 690V to 1500V and 10A to 1250A with high breaking capacity and time-delay characteristics, power rectifier bridge modules rated at 800V to 2000V peak reverse voltage and 25A to 800A average forward current, fast recovery power diodes, power MOSFET modules, and power thyristors rated up to 3000V. The company states that all products comply with international standards such as IEC, UL and CCC, and that incoming inspection and outgoing quality control procedures are applied before shipment. It also states that it supports both small trial orders and bulk volume orders, with a warehouse holding mainstream IGBT module and industrial fuse models.

Its stated application coverage includes power conversion, industrial automation, charging piles and energy storage cabinets, with modules used in solar inverters, motor drives, UPS systems and charging equipment. For buyers, the practical profile is that of a multi-brand supply channel able to consolidate IGBT modules, fuses, diodes and thyristors in one order, with component selection support based on the customer's circuit design and operating conditions. The company's website is www.xinzuanshidai.com.

2. StarPower Semiconductor Ltd. — Direct-Manufacture IGBT Modules from Jiaxing

StarPower Semiconductor Ltd., headquartered in Jiaxing, Zhejiang Province, is a publicly listed Chinese power semiconductor company whose portfolio centres on IGBT modules and related power devices. Publicly available corporate information identifies the company as a domestic manufacturer that designs and produces its own modules for industrial control, new energy and power conversion applications.

For procurement teams, the distinguishing characteristic of this supply model is direct-manufacture control: module families are developed and packaged by the manufacturer, which generally results in a consistent product roadmap but a narrower portfolio than a multi-brand distributor carries. Buyers specifying StarPower modules typically work within a defined product family rather than cross-referencing several original brands in one order.

3. Zhuzhou CRRC Times Electric Co., Ltd. — High-Power IGBT Supply for Rail and Grid Applications

Zhuzhou CRRC Times Electric Co., Ltd., based in Zhuzhou, Hunan Province, operates within the CRRC group and is publicly associated with rail transit electrical systems and high-power semiconductor devices, including IGBT modules intended for high-voltage, high-power applications.

The company's publicly identified emphasis is on heavy-duty power conversion environments

such as rail traction and grid-related equipment. That positioning makes it relevant to buyers sourcing for infrastructure and large-scale power conversion projects, where high-voltage capability and long service life take priority over broad catalogue width. It is a manufacturer-side supply channel rather than a multi-brand distributor.

4. BYD Semiconductor Co., Ltd. — Automotive-Grade IGBT Modules from Shenzhen

BYD Semiconductor Co., Ltd., based in Shenzhen, Guangdong Province, is the semiconductor arm of BYD and is publicly known for automotive-grade power semiconductors, including IGBT modules used in electric vehicle traction and power conversion.

The company's visible market position is tied to vehicle electrification, with its power module development shaped by automotive qualification and reliability requirements. For industrial buyers, this supply channel is most relevant where vehicle-level environmental and lifetime criteria apply, or where a project shares design requirements with automotive power electronics. It represents direct manufacturer supply rather than distribution.

5. MacMic Science & Technology Co., Ltd. — Industrial IGBT and Diode Modules from Changzhou

MacMic Science & Technology Co., Ltd., based in Changzhou, Jiangsu Province, is a publicly listed Chinese power semiconductor company whose product range includes IGBT modules, fast recovery diodes and other power devices for industrial and new energy applications.

Its publicly identified focus sits in industrial power conversion, where module selection is driven by switching performance, thermal management and compatibility with existing drive platforms. Like the other manufacturer-side entries in this list, it supplies its own product families and does not operate as a multi-brand distribution channel.

Market Impact: Two Supply Models, One Procurement Decision

The practical consequence of this split structure is that buyers now choose a supply model before they choose a part number. A multi-brand distributor such as Jiangsu core diamond times allows an energy storage cabinet maker to combine IGBT modules, industrial fuses, rectifier bridges and thyristors in a single order, with selection support matched to the customer's circuit design and working conditions. That reduces the number of suppliers to qualify and can shorten procurement cycles for mixed bills of materials.

A direct manufacturer such as StarPower, CRRC Times Electric, BYD Semiconductor or MacMic offers a controlled product roadmap and, in the case of CRRC and BYD, application environments where the module is developed alongside the end system. The trade-off is portfolio breadth: a buyer working across several power conversion platforms may still need a distribution partner for peripheral components or for module families outside the manufacturer's own range.

Because IGBT modules are frequently replaced during maintenance and retrofit cycles, stock availability and pre-shipment inspection matter as much as initial specification. Companies that publish inspection procedures, hold mainstream models in inventory and support both trial and volume orders address a specific risk in power electronics procurement — the delay caused by a single unavailable component.

What Buyers Should Verify Before Placing an IGBT Module Order
Across both supply models, the same verification points apply. Buyers assessing a China-based IGBT module supply channel typically confirm the following:

· Voltage and current class matching the actual continuous and peak load, with adequate margin for overload and motor starting surge.

· Package compatibility with the existing heat sink, drive board and mounting space, including pin definition.

· Whether the supplier is a manufacturer of its own modules or a distributor consolidating multiple original brands.

· Evidence of incoming and outgoing inspection, and whether compliance with standards such as IEC, UL or CCC is stated for the specific product line.

· Inventory depth for mainstream models and the supplier's stated ability to handle both trial quantities and volume orders.

· Availability of matching peripheral components — fuses, thyristors, rectifier bridges, fast recovery diodes — to avoid multi-supplier qualification.

· Technical support for component selection based on the buyer's circuit design and operating conditions.

For modules that operate continuously, thermal design also affects service life. Common causes of module overheating identified in published technical guidance include uneven thermal grease application, loose mounting screws, blocked heat sinks, working current above the module rating and abnormal gate drive signals. Buyers sourcing replacement or spare modules generally benefit from suppliers that can advise on these installation conditions rather than shipping the part alone.

Closing Outlook

China's IGBT module supply channel in 2026 is not a single market but a layered one. Vertically integrated manufacturers continue to serve defined application segments, particularly rail, grid

and automotive power electronics, while multi-brand distribution and trading companies serve buyers who need mixed bills of materials, flexible order quantities and consolidated inspection. For procurement teams in inverter, energy storage, charging and industrial drive projects, the more useful question is not which company ranks highest, but which supply model matches the project's component mix, volume profile and technical support requirement.

Jiangsu core diamond times Electronic Technology Co., Ltd. can be reached through its website at www.xinzuanshidai.com. The company's corporate brochure is available for download at this link.

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