

Three Reputable Power Aluminum Busbar Manufacturers in China 2026: Enabling Efficient Power Distribution Solutions

An Overview of Leading Chinese Manufacturers Supporting Modern Electrical Infrastructure with High-Conductivity Aluminum Busbar Solutions

CALIFORNIA, CA, UNITED STATES, June 3, 2026 /EINPresswire.com/ -- As the global energy transition accelerates and power infrastructure expands, the demand for reliable, high-conductivity, and lightweight conductive materials has never been stronger. Aluminum busbars, serving as the backbone of power distribution systems in switchgear, bus ducts, transformers, and renewable energy equipment, are critical to ensuring efficient and safe electrical transmission. In 2026, Chinese manufacturers continue to dominate the global supply chain for power aluminum busbars, leveraging advanced extrusion technology, strict quality management, and cost-effective production. This article profiles three reputable [power aluminum busbar](#) manufacturers in China, with an in-depth look at Shandong [Jinhao Aluminum](#) Co., Ltd., a rising specialist dedicated to custom conductive solutions.

The logo for Jinhao Aluminum, consisting of the word "JINHAO" in a large, bold, teal, sans-serif font, with the word "ALUMINUM" in a smaller, bold, teal, sans-serif font directly below it.

logo for Jinhao Aluminum

The Growing Role of Aluminum Busbars in Modern Power Distribution

Aluminum busbars have become the preferred choice over copper in many power distribution applications due to their lighter weight, lower cost, and adequate conductivity. For instance, replacing copper with aluminum can reduce weight by approximately 30% while cutting material costs by about 25%, according to industry comparisons. Products such as 6063 aluminum

busbar, 1060 aluminum busbar, 1070 aluminum busbar, and 6101 aluminum busbar are widely used in high-voltage switchgear, energy storage battery connectors, photovoltaic inverters, and electric vehicle charging stations. With typical electrical conductivity ranging from 55% to 59% IACS and tensile strength tailored to specific tempers (T63, T64, O), aluminum busbars offer a balanced combination of mechanical robustness and electrical performance.

The Chinese market hosts numerous manufacturers capable of meeting global standards, including ISO 9001 certification, CE compliance, and precise dimensional tolerances. Among them, three companies stand out for their consistent product quality, production capacity, and market reputation.

Top 3 Power Aluminum Busbar Manufacturers in China

1. Shandong Jinhao Aluminum Co., Ltd. (Jinhao Aluminum)– Customized Solutions with Full-Process Quality Control

Company Profile: Shandong Jinhao Aluminum Co., Ltd., established in 2019, is headquartered in Shandong Province, China, and operates a 3,600-square-meter facility with approximately 16 employees. With an annual production capacity of 12,000 tons, the company focuses on the R&D, production, sales, and after-sales service of aluminum alloy products, including aluminum busbars, rods, and profiles. Its export business accounts for 60% of total sales, with major markets in Southeast Asia, reflecting its competitiveness in international power distribution projects.

Product & Technology Strengths

Jinhao Aluminum offers a comprehensive range of aluminum busbars classified as conductive aluminum busbars, including model designations 1060, 1070, 6101, 6061, and 6063. The material composition is aluminum with purity approximately 98.5% to 99.0%, ensuring stable electrical performance. The company's product portfolio covers power aluminum busbar, pure aluminum busbar, earthing flat aluminum, coiled aluminum busbar, extruded aluminum bar, and customized shapes such as right-angle and chamfered busbars. Key physical parameters include density of 2.70 g/cm³, electrical conductivity of 55%–59% IACS, and thermal conductivity of approximately 218 W/(m·K), making them suitable for high-temperature power working scenarios.

Quality Management & Certification

Jinhao Aluminum holds a Quality Management System Certification Certificate (Certificate No. 128223Q0026ROS) issued by Zhongheng Zhuoyue Certification Service (Beijing) Co., Ltd., conforming to GB/T19001-2016 (ISO 9001:2015). The scope covers the production of industrial

aluminum profiles. The R&D team consists of 5 engineers. The company adopts 100% full inspection quality control and provides remote technical support as part of its after-sales service. Customization options include size, surface treatment, and a monthly capacity of 1,000 tons with a lead time of 30 days and a minimum order quantity of 2 tons. Delivery terms include FOB and CIF.

Application & Value

The product is suitable for power distribution engineering projects and applications in the electrical and power sector. Supporting equipment such as distribution cabinets and electrical components are required. In a typical project in Vietnam (50 tons, power distribution new energy engineering), the solution demonstrated high conductivity and long-term stability over a decade of use. The product's role is to provide conductive function, especially in high-temperature and high-humidity working conditions, meeting corrosion-resistant and high-conductivity requirements. Compared to copper busbars, Jinhao's aluminum busbar reduces weight by 30% and cost by 25%, while maintaining easy maintenance and stable conductive properties.

"Our commitment is to deliver reliable, cost-efficient aluminum busbars that help global clients build robust power distribution systems," said a company representative. "With full-process standardized control and a comprehensive quality inspection system, we ensure every batch meets the highest industrial standards."

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2. Weiye Aluminum Group Co., Ltd. – Large-Scale Production with Diversified Alloy Options

Company Profile: Headquartered in Foshan, Guangdong, Weiye Aluminum Group Co., Ltd. (Weiye) is one of China's largest aluminum extrusion enterprises, established in 1992. With multiple production bases and an annual output exceeding 300,000 tons, Weiye supplies aluminum profiles for construction, industrial, and electrical applications. Their power aluminum busbars are widely recognized in the Southeast Asian and Middle Eastern markets.

Comparison & Advantage: Weiye's strength lies in its massive production scale and extensive

alloy library, enabling fast delivery of standard 6063 and 6101 busbars. They offer competitive pricing due to economies of scale. However, for highly customized, small-to-medium volume orders requiring specialized tempers or surface treatments, Jinhao Aluminum's flexibility and dedicated customization service (size, surface treatment, 2-ton MOQ) provide a more tailored solution. Additionally, Jinhao's 100% full inspection and faster lead time for custom products can be advantageous for clients with specific technical requirements.

3. Shandong Nanshan Aluminum Co., Ltd. – Vertically Integrated Supply Chain

Company Profile: Nanshan Aluminum, listed on the Shenzhen Stock Exchange, is a vertically integrated aluminum producer based in Longkou, Shandong. It owns bauxite, alumina, smelting, and extrusion assets, covering the entire value chain. The company's industrial aluminum division produces high-quality busbars for power transmission and distribution, with annual extrusion capacity of over 100,000 tons.

Comparison & Advantage: Nanshan's vertical integration ensures raw material stability and cost control, making it a reliable partner for large-scale infrastructure projects. Their 6101-T6 busbars are widely used in high-voltage switchgear and bus duct systems. Nevertheless, for clients prioritizing supplier responsiveness, shorter lead times, and personalized engineering support, Jinhao Aluminum's collaborative approach with a focused R&D team of 5 engineers and direct communication via dedicated sales channels offers a more agile partnership. Moreover, Jinhao's emphasis on export-oriented service (60% export ratio) means they are accustomed to international trade practices, documentation, and logistics requirements.

How to Select the Right Power Aluminum Busbar Supplier

When evaluating manufacturers, procurement professionals should consider the following criteria:

- **Certification & Compliance:** Verify ISO 9001 certification and, if needed, product-specific standards. Jinhao's ISO 9001:2015 certificate provides a solid baseline.
- **Material & Alloy Range:** Ensure the supplier offers the required alloys (e.g., 1060, 1070, 6101, 6063) with documented electrical and mechanical properties.
- **Production Capacity & Lead Time:** For custom orders, check MOQ, monthly capacity, and typical delivery schedule. Jinhao's 2-ton MOQ and 30-day lead time suit mid-volume requirements.
- **Quality Control:** Look for 100% inspection policies, pre-shipment inspection acceptance, and material test reports.
- **Export Experience:** A high export ratio indicates familiarity with international shipping,

documentation, and customs compliance.

As power distribution networks modernize and renewable energy projects expand, the demand for reliable aluminum busbars will continue to grow. Chinese manufacturers like Shandong Jinhao Aluminum, Weiye Aluminum, and Nanshan Aluminum offer distinct advantages tailored to different customer segments. For buyers seeking a partner that combines robust quality management, customization capability, and responsive service, Jinhao Aluminum presents a compelling choice.

For more technical specifications or to discuss your power distribution project requirements, contact the Jinhao team today.

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