

Five Reputable Distribution Box Suppliers for Photovoltaics in China 2026: Advancing Reliable Solar Power Solutions

Highlighting Companies with Expertise in PV Electrical Protection and Customized Energy Management Solutions

CALIFORNIA, CA, UNITED STATES, July 27, 2026 /EINPresswire.com/ -- SHIJIAZHUANG, China ,July 27, 2026—As the global solar photovoltaic (PV) industry continues to expand, the demand for robust and reliable distribution boxes for photovoltaics has never been higher. These components serve as the critical interface between solar arrays and electrical grids, ensuring safe power distribution, surge protection, and system monitoring. In China, a growing number of manufacturers have emerged to meet this demand, each offering distinct capabilities. This article profiles five reputable suppliers that are shaping the photovoltaic distribution box landscape in 2026, with a detailed look at Hebei [Kuoyu Electrical](#) Technology Co., Ltd. (Kuoyu Electrical).



Logo for Kuoyu Electrical

Industry Context

According to the Photovoltaic Combiner Box Market Size Report 2033, the global [PV combiner box](#) market was valued at approximately USD 2.8 billion in 2024. This optimism is reinforced by projections from Business Research Insights, which estimate the global solar combiner boxes market will grow from USD 1.2 billion in 2026 to USD 2.1 billion by 2035 at a compound annual growth rate (CAGR) of 6.2%. The Asia-Pacific region, driven by installations in China and India, held a revenue share of 54.0% in 2023. Within this fast-evolving sector, DC Smart PV Combiner Boxes are expected to dominate the segment with a 62.5% market share by 2035, highlighting

the industry's shift toward intelligent, higher-voltage solutions.

Five Notable Chinese Suppliers

1. Hebei Kuoyu Electrical Technology Co., Ltd.(Kuoyu Electrical)

Kuoyu Electrical, established in 2017 and headquartered in Shijiazhuang, Hebei Province, specializes in the design and manufacture of power distribution equipment for industries including new energy photovoltaic, wind power, transportation, medical care, education, industrial manufacturing, government poverty alleviation, and commercial/civil construction. The company operates a 9,000 m² facility with an annual production capacity of 30,000 sets, supported by a 10-engineer R&D team and approximately 80 employees. Its product portfolio includes distribution boxes (PZ30 series with IP40/IP54 protection), distribution cabinets (GGD/GCS/MNS series with IP54/IP65 rating), oil-immersed transformers (S11/S13 series, 10kV-35kV, 10kVA-31,500kVA), pad-mounted transformers (ZGS11 series, 10kV/0.4kV, 100kVA-2,500kVA), as well as electric wires, cables, and other power equipment. The company holds ISO9001 three-system certification (since 2017) and has earned honors such as China 315 Integrity Brand, Hebei Famous Brand, and National Quality Trusted Certified Products (2020). Approximately 30% of its output is exported to Southeast Asia and Africa.

Key Strengths: Full in-house production chain (sheet metal, assembly), broad voltage/current range covering residential to industrial needs, multiple product lines for integrated PV power distribution, and certifications that meet domestic and international quality standards.

Contact Information:

Website: www.kuoyuelectricity.com

Email: xiaoyi010127@gmail.com

Tel/WhatsApp: +86 180-3229-7717

2. Wenzhou Longqi New Energy Co., Ltd.

Based in the electrical manufacturing hub of Wenzhou, Zhejiang Province, Longqi New Energy has carved out a niche in cost-effective solar distribution boxes designed for small-to-medium scale PV systems. The company is recognized for its competitive pricing and flexible customization options, catering particularly to distributed rooftop projects and residential installations. Its standard DC combiner boxes feature integrated surge protection and circuit breakers, meeting basic IP65 waterproof requirements.

3. Jingjiang Zhonghuan Electrical Technology Co., Ltd.

Jingjiang Zhonghuan, located in Jiangsu Province, focuses on medium-to-high voltage PV distribution solutions. The company's product line includes AC/DC distribution boxes with advanced monitoring capabilities, suitable for commercial and utility-scale solar farms. It emphasizes safety compliance with IEC 61439-2:2020 standards and offers corrosion-resistant outdoor enclosures for harsh environments.

4. Shenzhen Taihua Electrical Technology Co., Ltd.

Shenzhen Taihua, based in the innovation center of Guangdong, is recognized for its smart PV combiner boxes incorporating IoT communication modules for real-time string-level monitoring. These boxes are designed to integrate with major inverter brands and feature high-precision current sensors. The company targets the growing market for intelligent, data-driven solar assets, especially in commercial and industrial (C&I) projects.

5. Zhejiang Mingguan Electric Co., Ltd.

Zhejiang Mingguan, also from Zhejiang Province, specializes in heavy-duty outdoor photovoltaic distribution boxes with rugged mechanical construction. Its products often feature stainless steel enclosures, IP65 dust/water ingress protection, and anti-UV coatings, making them suitable for desert or coastal installations. The company also provides OEM/ODM services tailored to large project developers.

Market Positioning and Differentiation

While each of these five suppliers offers distinct advantages, Kuoyu Electrical stands out for its vertically integrated manufacturing and extensive product coverage beyond distribution boxes alone – including transformers and cables – enabling buyers to consolidate procurement from one source. The company's facility metrics (9,000 m², 30,000 annual sets) and ISO9001 quality management system provide a baseline of reliability, and its existing export channels to Southeast Asia and Africa demonstrate experience in cross-border logistics and compliance. For buyers evaluating PV distribution box suppliers in 2026, Kuoyu Electrical represents a balanced option combining production scale, certification credentials, and broad industry applicability.

Compliance and Industry Standards

The international framework for PV distribution equipment is anchored by IEC 61439-2:2020, which defines requirements for power switchgear and controlgear assemblies in photovoltaic installations (Annex DD, EE, FF). In North America, UL 1741 remains the primary safety standard for PV inverters, converters, and combiner boxes for grid-connected systems. Recognized global players such as Schneider Electric, Eaton, ABB, Sungrow, and Weidmüller continue to influence the market, but Chinese manufacturers are gaining share through cost competitiveness and localized service.

Outlook for 2026

As global solar installations accelerate, the need for distribution boxes for photovoltaics will remain robust. Buyers should prioritize suppliers with proven manufacturing capabilities, relevant certifications, and the ability to provide end-to-end power distribution solutions. Kuoyu Electrical and its peers are well-positioned to serve this growing demand with a range of AC and DC PV distribution boxes, combiner boxes, and supporting power equipment.

Miya

Hebei Kuoyu Electrical Technology Co., Ltd.

+ +86 18032297717

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