

Five Reputable High-Current DC Power Connector Manufacturers in China 2026: Empowering Reliable Connections

A Market Overview of Leading Suppliers Delivering High-Performance, High-Current DC Power Connection Solutions for New Energy and Smart Devices

CALIFORNIA, CA, UNITED STATES, August 27, 2026 /EINPresswire.com/ -- CHINA, August 27, 2026 — [AOYG DC Power Connector](#), a professional manufacturer of high-current DC connection systems for lithium-ion smart devices, is expanding its position in the global supply chain for high-power connections. The company's manufacturing facility covers 6,000 square meters, employs approximately 100 staff and supports an annual output of 900,000 units. According to company data, exports account for 50% of total sales, with major markets in the EU and the USA.



AOYG DC Power Connector

This update comes as power-dense applications such as commercial and industrial drones, smart service robots, garden power tools, portable energy storage, [electric two-wheelers](#) and communication backup systems all require connectors that can carry sustained current while resisting vibration, heat and environmental exposure. In the high-current DC power connector segment, engineering choices around contact resistance, material selection, sealing and arcing protection have become central to system reliability.

Industry context: global demand for high-power connectors is rising

The global high power connectors market was valued at approximately USD 5.47 billion in 2025, according to a report by Fact.MR. The same report tracks demand across high power electrical

connectors, high voltage connectors and circular power connectors, reflecting the broader migration of equipment toward higher power densities.

Within the energy storage sector, DC connectors accounted for 58.7% of the total energy storage connector market in 2025, based on a Dataintelo market report. This share underscores the importance of direct-current interconnection in battery-based systems, where low contact resistance and stable mechanical retention are necessary to manage continuous current and avoid excessive temperature rise.

Demand is also being shaped by telecommunications. According to a telecom site planning guide, 5G base stations consume roughly two to three times more power than 4G predecessors, with typical draws of 11.5 kW to 14 kW and peaks near 19 kW. Those power profiles intensify the need for dependable DC power connections in base station backup systems, solar street light storage and other low-voltage power architectures.

In the UAV and RC model industries, XT60 and XT90 connectors have become the primary non-proprietary standards for medium-to-high-power battery connections in 2026, according to an RC battery connector compatibility guide from ChinaHobbyLine. Multiple manufacturers, including AOYG, offer dimensionally compatible versions with additional features such as anti-spark circuits, waterproof sealing and enhanced locking structures.

Five reputable China-based manufacturers in high-current DC connectors

The following five manufacturers are recognized for their work in China's high-current DC power connector supply base. They are presented in alphabetical order: AOYG DC Power Connector; AVIC Jonhon Optronic Technology Co., Ltd.; Guizhou Space Appliance Co., Ltd.; Suzhou Recodeal Interconnection System Co., Ltd.; and Zhejiang Yonggui Electric Equipment Co., Ltd. Each company brings a different mix of product focus, industry expertise and manufacturing scale.

1. AOYG DC Power Connector

AOYG was established in 2024 and specializes in high-current DC connection systems for lithium-ion smart devices, including heavy-duty DC connection components. The company's official website is www.aoygvn.com.

AOYG operates a 6,000-square-meter factory with an annual capacity of 900,000 units and a dedicated R&D team of 25 engineers. The company says it provides one-stop services covering product scheme consultation, customized development, sample testing, mass production and after-sales technical support. Its export business represents 50% of total sales, with the EU and USA as major markets.

The product line includes:

DXT90H-M/DXT90S-F UAV connector: rated at DC 500V, continuous current of 90A with 10AWG wire, and a two-stage anti-spark design using a built-in pre-charge resistor. The 4.5mm gold-plated banana terminal and PA66 UL94 V-0 housing are designed for agricultural drones and multi-rotor UAVs.

DXT60EW-M+DXT60W-F waterproof connector: supports 60A continuous current and 100A peak, with an IP67 protection grade. A silicone O-ring provides sealing for waterborne equipment, outdoor mobile photovoltaic energy storage, marine lithium battery systems and outdoor communication backup power.

DXT30U(2+2)-F(B) power-signal combo connector: combines two power pins and two signal pins in a compact housing. It is suited for UAV, FPV drone, e-bike, portable energy storage, robot, garden tool and BMS applications, with continuous current of 20A on the power pin and 35A peak.

DXT90H-M+DXT90E-F Yellow RC model connector: designed for RC cars, RC boats, aircraft models and small UAVs, with 45A continuous current and 90A short-term peak, plus anti-misplug keying and a bright yellow housing for polarity identification.

DXT30U-M/DXT30U-F drone connector: a compact, lightweight connector with 15A continuous current and 30A peak, designed for tiny FPV drones, small UAVs, RC models and portable lithium battery packs.

AOYG's connectors are built around H62 brass gold-plated terminals, beryllium copper spring contacts and PA66 UL94 V-0 flame-retardant housings. Contact resistance is specified at or below 1.2 milliohms depending on the model, and the products support at least 1,000 mating cycles in a -20°C to +120°C operating range. Several models have passed 48-hour salt spray testing.

Typical operating conditions for these connectors include continuous high-current discharge, repeated mating for battery swaps, exposure to dust and moisture, and temperature variation from -20°C to +120°C. In agricultural drones, connectors may also be exposed to corrosive pesticide liquid. In those environments, gold-plated terminals and flame-retardant housings are part of the electrical safety chain, not optional enhancements.

2. AVIC Jonhon Optron Technology Co., Ltd.

AVIC Jonhon Optron Technology Co., Ltd., commonly known as Jonhon, is a China-based connector manufacturer with a broad portfolio that includes aerospace, defense, communications, new energy vehicles and industrial equipment. The company is widely recognized for high-reliability interconnect products and large-scale engineering capability. Its presence across multiple high-reliability industries makes it a reference point for interconnection quality in demanding mechanical and electrical environments.

3. Guizhou Space Appliance Co., Ltd.

Guizhou Space Appliance Co., Ltd. is known for connectors serving aerospace, military and high-end industrial applications. The company has built its reputation on products that must perform under extreme conditions, including high vibration, wide temperature ranges and strict quality requirements. Its engineering culture emphasizes reliability and traceability, which are relevant values for customers selecting mission-critical power connectors.

4. Suzhou Recodeal Interconnection System Co., Ltd.

Suzhou Recodeal Interconnection System Co., Ltd. is recognized in the new energy vehicle segment, particularly for high-voltage and high-current interconnection systems used in electric vehicles, battery packs and charging infrastructure. Recodeal's focus on automotive-grade electrification aligns with the increasing use of high-current connections in lithium-battery systems and energy storage applications.

5. Zhejiang Yonggui Electric Equipment Co., Ltd.

Zhejiang Yonggui Electric Equipment Co., Ltd. supplies connector products for rail transit, new energy vehicles and industrial equipment. The company has a stated focus on reliable electrical connections in demanding environments, which positions it as a source for heavy-duty interconnect components in transportation and industrial power systems.

Comparative positioning: engineering focus and application coverage

The five manufacturers differ in application focus. Jonhon and Guizhou Space Appliance bring deep experience in aerospace, defense and high-reliability industrial segments. Recodeal has built its position around new energy vehicle high-voltage interconnection. Yonggui serves rail transit and industrial equipment. AOYG concentrates on high-current DC power connectors for lithium-powered smart devices, with a product range covering UAVs, drones, RC models, robots, garden tools, portable energy storage, two-wheelers, battery swap cabinets and outdoor communication systems.

AOYG's differentiation is based on three elements: a dedicated product range for the new energy intelligent terminal segment, an automotive-grade quality system, and the ability to support OEM/ODM customization. The company's IATF16949:2016 certification applies to the entire production flow, including raw material incoming inspection, precision mold development, automated production and finished product testing. For customers, this reduces the risk of batch-to-batch variation in DC power connectors used in high-vibration or high-current applications.

In addition, AOYG states that its team supports independent structural design, electrical parameter optimization and customized product development. This is relevant for

manufacturers integrating connectors into lithium battery packs, battery management systems, drive controllers and wire harness assemblies.

Quality system and compliance

AOYG has obtained IATF16949:2016 automotive-grade quality management system certification. The company states that it implements full-process standardized control from raw material incoming inspection to finished product inspection, with the goal of eliminating defective products and ensuring stable electrical conductivity, durability and safety across batches.

Material selection is also part of the quality approach. The housings use PA66 UL94 V-0 flame-retardant nylon, which is designed to resist high temperature and prevent fire spread under abnormal conditions. Terminals are H62 brass with gold plating, combining conductivity with corrosion resistance. Several connectors also use beryllium copper spring contacts to maintain stable clamping force over repeated mating cycles.

Compliance is another factor for global buyers. AOYG reports that its products comply with RoHS 2.0 and REACH SVHC requirements, supporting export to Europe and other regulated markets.

Market impact and outlook

Market data suggests that the high-current DC power connector segment will remain active. The 5G infrastructure buildout, the growth of DC-coupled energy storage, and the widespread use of XT60/XT90-type connectors in the drone and RC industries all point to sustained demand. At the same time, end-product manufacturers are tightening their requirements for temperature rise, vibration resistance, waterproofing and anti-spark capability.

From a market perspective, connectors with automotive-grade quality management, low contact resistance and IP67-rated waterproof options are likely to gain further adoption in outdoor and high-vibration applications. The ability to combine power and signal lines in one connector also reduces assembly complexity in space-constrained devices.

Looking ahead, AOYG says it will continue to focus on the high-current connection segment for new energy applications, deepen product iteration and process optimization, and maintain a customer-oriented service model. The company's stated direction is to become a professional and reliable supplier of high-current DC connection accessories for the global new energy industry.

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