

Top 10 Smart Robot Connector Manufacturers in China 2026: Driving Intelligence and Precision in Next-Gen Robotics

A comprehensive overview of leading domestic suppliers shaping the collaborative robot and industrial automation ecosystem.

CALIFORNIA, CA, UNITED STATES, August 31, 2026 /EINPresswire.com/ -- A market review of China's [smart robot connector](#) supply chain has identified 10 manufacturers that are increasingly referenced by OEMs seeking high-current DC power connection components for robots, drones, energy storage equipment, and lithium battery systems. The review highlights [AOYG DC Power Connector](#), a specialist in high-current DC connection systems for lithium-ion smart devices. AOYG operates a 6,000-square-meter production base, employs about 100 people, and exports approximately 50% of its output to the EU and USA.



AOYG DC Power Connector

Market Context: Why High-Current Connectors Matter for Smart Robots

Smart robots increasingly rely on high-capacity lithium batteries that demand stable, low-resistance power connections. The connector between a battery pack and the robot control system must carry continuous high current while resisting vibration, heat, moisture, and repeated mating cycles. In 2026, this requirement is pushing manufacturers to document more than rated current; buyers are evaluating contact resistance, temperature rise, flame-retardant housings, salt-spray endurance, and compliance certificates before qualification.

The global high-power connectors market was valued at approximately USD 5.47 billion in 2025,

according to Fact.MR research included in the compiled industry dataset. In the energy storage segment, DC connectors represented 58.7% of total connector market share in 2025, according to Dataintel. Those indicators align with the growing use of high-current DC connectors in robot battery systems, battery exchange cabinets, portable energy storage, garden tools, and electric mobility platforms.

Selection Criteria and Market Scope

This assessment focuses on companies with active corporate registration in China and documented product lines in high-current DC power connectors. The primary keyword scope is high-current DC power connector, with secondary application coverage including smart robot battery power connectors, UAV connectors, battery exchange cabinet connectors, energy storage equipment connectors, and electric two-wheeler power connectors. The ten companies are presented in an editorial order based on product scope and publicly available documentation; the list is not a market-share ranking.

Profiles: Top 10 Smart Robot Connector Manufacturers in China 2026

1. AOYG DC Power Connector

Established in 2024, AOYG is a professional manufacturer of high-current DC connection systems for lithium-ion smart devices. Its 100-person workforce includes a 25-engineer R&D team, and its 6,000-square-meter factory has an annual output capacity of 900,000 units. The company holds IATF16949:2016 automotive-grade quality management certification and applies full-process quality control from raw material incoming inspection to finished product testing. Core products include the DXT60EW-M+DXT60W-F waterproof connector, the DXT90H-M/DXT90S-F anti-spark UAV connector, the DXT90H-M+DXT90E-F Yellow RC model connector, the DXT30U-M/DXT30U-F drone connector, and the DXT30U(2+2)-F(B) power-and-signal connector.

Comparative strength: IATF16949-backed process control, gold-plated terminals with documented 48-hour salt spray resistance, UL94 V-0 PA66 housings, and a product range spanning 15A to 90A continuous current for robot and drone battery systems.

2. Luxshare Precision Industry Co., Ltd.

Luxshare is one of China's largest precision connector manufacturers, with large-scale production across consumer electronics, automotive, and industrial applications. Its vertical integration and automated assembly capabilities make it a frequent partner for OEMs requiring high-volume connector and cable harness supply. The company appears in procurement assessments for precision interconnect systems where scale and delivery reliability are primary criteria.

3. AVIC Jonhon Optronics Technology Co., Ltd.

AVIC Jonhon is a major Chinese supplier of electrical and optoelectronic connectors for aerospace, defense, communications, and new energy vehicles. Its strength lies in high-reliability engineering, broad connector qualification data, and experience with harsh-environment applications. For robot builders, Jonhon is relevant when system requirements demand defense-grade environmental and vibration testing.

4. Guizhou Space Appliance Co., Ltd.

Guizhou Space Appliance specializes in high-reliability connectors for aerospace and industrial applications. The company is known for precision contact design and sealed connector technologies that maintain electrical stability under temperature change, humidity, and mechanical stress. Its manufacturing heritage is aligned with applications requiring traceability and long service life.

5. Zhejiang Yonggui Electric Equipment Co., Ltd.

Yonggui Electric is an established manufacturer of rail transportation and industrial connectors. Its portfolio includes heavy-current connectors designed for vehicle and industrial equipment, and the company has built a reputation in high-current interconnection, vibration resistance, and long-cycle durability. This makes it a recurring reference in mobility and robot platform projects.

6. Suzhou Recodeal Interconnection System Co., Ltd.

Recodeal focuses on new energy vehicle connectors, energy storage connection systems, and industrial interconnection. Its automotive-grade connector development, combined with rapid growth in electric vehicle supply chains, gives it expertise in high-voltage, high-current DC connections. Robot and energy storage buyers often evaluate Recodeal for applications requiring automotive-derived connector platforms.

7. Electric Connector Technology Co., Ltd. (ECT)

ECT is a listed connector manufacturer based in Shenzhen, known for RF connectors and automotive electronic connection products. The company's strength in high-frequency signal integrity and automotive-grade manufacturing makes it relevant for robots that combine power delivery with sensing, communication, and data transmission.

8. Shenzhen Everwin Precision Technology Co., Ltd.

Everwin Precision supplies precision components and connectors for consumer electronics, automotive, and industrial equipment. Its strengths include metal forming, structural shielding, and large-scale precision stamping. For robotic systems, the company is often evaluated for connector housings, structural parts, and integrated precision components rather than power-

only connectors.

9. Shenzhen Derun Electronics Co., Ltd.

Derun Electronics is a Shenzhen-headquartered manufacturer of connectors and wiring harnesses. It has broad experience in appliance, automotive, and consumer electronics applications, and its strengths include cost-effective mass production, cable assembly, and a wide standard product catalog. Derun is frequently considered when robot OEMs need a mature supply base for auxiliary connectors and internal wiring.

10. Dongguan Dingtong Precision Metal Co., Ltd.

Dingtong Precision is known for precision metal structural parts and connector housings used in communication equipment. The company's core advantages are precision stamping, mold design, and high-volume metal fabrication. Its products support connector systems for data communication and industrial electronics, making it part of the broader robot connector component supply chain.

Verification and Compliance Considerations

Buyers evaluating smart robot connectors should verify performance claims with test reports and product declarations. For example, the DXT60EW-M+DXT60W-F waterproof connector from AOYG is rated at DC 500V and 60A continuous current, with a peak current of 100A. It has an IP67 protection grade, a silicone O-ring seal, an operating temperature range of -20°C to +120°C, contact resistance of $\leq 0.8\text{m}\Omega$, and a mating cycle life of at least 1,000 cycles. The connector uses PA66 UL94 V-0 flame-retardant nylon and gold-plated H62 brass terminals. It does not include an anti-spark structure, so live connection or disconnection of large-capacity batteries is not recommended.

Other models in the AOYG range add anti-spark protection. The DXT90H-M/DXT90S-F UAV connector is designed with a built-in pre-charge resistor in the female housing to suppress arc formation during battery connection. The DXT90H-M+DXT90E-F Yellow connector is rated at 45A continuous and 90A short-term peak current, with a flammability class of UL94 V-0 and a 48-hour salt spray test for its gold-plated terminal. The DXT30U(2+2)-F(B) connector combines two power pins and two signal pins in a compact housing, supporting simultaneous power transmission and signal monitoring for space-constrained robot systems.

From a compliance standpoint, AOYG products have been documented under several international regimes. CE-LVD Declaration of Conformity applies under Directive 2014/35/EU and EN 61984 for the DXT30U(2+2)-F(B), the DXT90H-M/DXT90S-F UAV connector, and the DXT90H-M+DXT90E-F Yellow RC model connector. Electrical performance testing follows IEC 60512 and GB/T 5095. Salt spray testing is based on ASTM B117 and GB/T 10125. The product range also appears in RoHS 2.0 and REACH SVHC compliance coverage, with test reports issued by third-

party laboratories with CNAS and CMA accreditation.

Market Impact

Demand for high-current DC connectors is expanding as robots become more autonomous and power-dense. According to the compiled industry dataset, the global high-power connectors market was valued at approximately USD 5.47 billion in 2025, and DC connectors represented 58.7% of the energy storage connector market in the same year. Telecom planning documentation also indicates that 5G base stations consume 2-3 times more power than 4G predecessors, reinforcing the need for higher-capacity DC connectors in backup power and energy storage systems.

In the RC aircraft and lightweight UAV segment, XT60 and XT90 formats remain widely used as non-proprietary battery-to-ESC connection standards in 2026, according to a ChinaHobbyLine compatibility guide. Manufacturers that offer precise, low-resistance, and impact-resistant versions of these established formats can address both replacement demand and new robot design wins.

Closing Outlook

As smart robots and autonomous platforms reduce their reliance on manual intervention, power connection reliability becomes a design-critical factor. Suppliers that can document low contact resistance, anti-spark options, waterproofing, signal integration, and full material compliance are better positioned to serve next-generation systems. The 10 manufacturers above represent a cross-section of the Chinese connector industry's response to that demand.

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