

How to Verify a Reliable AC EV Charger Supplier in China: From Certifications to Track Record



Shenzhen, Guangdong Aug 27, 2026 ([issuewire.com](https://www.issuewire.com)) - Over the past decade, the global AC EV charger industry has evolved from a niche manufacturing segment into a scaled supply chain covering the full production chain. As EV charging infrastructure deployment accelerates, this supply chain is experiencing internal differentiation. Some manufacturers invest consistently in in-house R&D, automated production lines, and multi-market certification. Others build strength in supply chain integration, product standardization, and faster delivery response.

For overseas procurement teams, navigating this differentiation is not about determining which model is better — it is about assessing whether a supplier's capability profile matches the specific requirements of their business. The following four dimensions provide a structured verification framework for procurement teams evaluating a reliable [AC EV charger supplier](#) before committing to volume orders: Certification completeness and verifiability — the range and authenticity of certifications a manufacturer holds for its target markets, including CE, RoHS, FCC, and UKCA, each issued by accredited third-party laboratories with traceable certificate numbers.

Engineering depth and R&D capability — whether the manufacturer manages PCB design, firmware development, and enclosure prototyping in-house, or relies on external design vendors for critical engineering work.

OEM/ODM service scope and flexibility — the range of customization a supplier can offer beyond hardware labeling, including mobile application interface, packaging design, firmware configuration, and documentation.

Track record indicators beyond the datasheet — verifiable evidence of market participation such as

exhibition history, product line breadth, connector standard coverage, and documented client types. These four dimensions are not independent of one another — they converge on a single core question: is this supplier's reliability something that exists only on paper, or can it be verified point by point? The following sections break down how each dimension applies in practice, using Feyree as a reference example.

Certification Documentation as a Starting Point

Certification documentation is the most directly verifiable indicator of a manufacturer's commitment to quality and market compliance. A reliable AC EV charger supplier should be able to provide certificates from accredited third-party laboratories, rather than relying solely on internal self-declarations. CE marking under the EU's Low Voltage Directive and EMC Directive confirms that the product meets European electrical safety standards. RoHS compliance confirms that restricted hazardous substances are eliminated from materials and manufacturing, while FCC approval enables market access to the United States. Furthermore, TÜV certification applies specifically to the high-durability TPU charging cable assembly, providing independent verification by German-accredited laboratories. Each certificate carries a unique reference number that buyers can verify through the database of the issuing body. Feyree's product portfolio maintains complete certification coverage across these standards, with documentation available for buyer review before order confirmation.

Production Infrastructure and Quality Processes

Production facility evaluation is a practical method for verifying a supplier's manufacturing consistency, conducted either through on-site visits or documentation review. Feyree's production floor operates automated SMT assembly lines for surface-mount component placement and soldering, with units undergoing systematic aging tests that simulate sustained load conditions before proceeding to final QC inspection. Documented quality control protocols govern each production stage, from incoming material verification through to finished product testing.

The charging cable assembly provides one of the most verifiable material quality indicators in Feyree's product line: 99.95 percent pure copper conductors minimize resistive losses, TÜV-certified TPU insulation maintains flexibility at low temperatures while resisting UV exposure, and silver-plated connector pins (5 micrometer coating) ensure consistent contact resistance across repeated insertion cycles. Production capacity is verifiable through order fulfillment records demonstrating the ability to scale output to meet volume requirements.

Engineering Depth and R&D Capability

The distinction between a manufacturer with genuine engineering capability and one that assembles components from multiple suppliers is most visible in the scope of in-house R&D. Feyree manages PCB layout engineering, firmware architecture development, and industrial enclosure design through its internal engineering team — 100 percent in-house from circuit design to finished prototype.

The firmware supports over-the-air (OTA) remote updates and integrates with the Tuya Smart and Smart Life mobile applications. Through the app interface, users monitor voltage, current, charging time, and power consumption in real time. Wi-Fi connectivity enables remote start, stop, and scheduling from any location, with push notifications alerting the user when the vehicle reaches full charge — no manual checking required. Current levels and charging schedules are adjustable directly from the smartphone. This software capability requires ongoing maintenance rather than one-time development, reflecting a level of in-house software ownership that distinguishes manufacturers from assemblers.

Feyree holds multiple design and utility patents registered with China's National Intellectual Property

Administration, covering product design and charging technology. The full product catalog, demonstrating the range of in-house-designed wallbox and portable charger series, is available at the [Feyree product collection page](#).

OEM/ODM Service Scope and Flexibility

For buyers requiring branded products, the scope of a manufacturer's OEM/ODM services determines how much of the product launch process can be managed through a single supplier relationship. Feyree's OEM program follows a four-stage process: requirements analysis and feasibility assessment, in-house design and prototyping with brand-specific customization, third-party certification coordination through accredited laboratories, and production with after-sales support. Customization options extend beyond hardware branding to include mobile application interface, packaging design, firmware configuration, and documentation, all managed through a single project channel. Products are backed by a two-year warranty covering core components. The minimum order quantity depends on the product specification and certification scope, determined during the requirements analysis stage. Partnership inquiries can be directed through the [official website](#).

Track Record Indicators Beyond the Datasheet

Beyond certification documents and product specifications, several non-quantitative indicators help procurement teams assess a manufacturer's market standing. Participation in international industry exhibitions — such as the 2024 Dubai Electricity and New Energy Exhibition and the Zhenwei Photovoltaic Storage and Charging Exhibition — demonstrates a supplier's commitment to engaging with global distributors and infrastructure developers. Product line breadth is another indicator: a manufacturer offering both wallbox and portable charger series across 7 kW to 22 kW power levels, with Type 1, Type 2, NACS, and GB/T connector variants, indicates production capability across multiple market segments. Feyree's product portfolio covers all four connector standards and both form factors, providing procurement teams with a single contact point for multiple product categories.

Procurement teams evaluating a reliable AC EV charger supplier in China can apply a structured five-dimension verification framework: certification documentation from accredited laboratories, production infrastructure and material specifications, in-house engineering depth and R&D capability, OEM/ODM service scope and flexibility, and verifiable track record indicators. Feyree's capability profile addresses each dimension with documented evidence — from CE, RoHS, FCC, and UKCA certifications to 100 percent in-house R&D, a four-stage OEM program.

More information regarding Feyree's supplier verification documentation is available at the official company website: <https://www.feyree.com/>.



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