

Why Certification Matters Custom OEM EV Chargers with CE RoHS and FCC Approved



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As EV adoption continues to grow worldwide, regional markets are steadily establishing their own regulatory requirements. For OEM buyers, the ability to sell the same product across multiple markets in full compliance is critical. Whether a custom OEM EV charger can be sold across European, North American, and UK markets without modification at each border depends on the certification portfolio the manufacturer integrates into its design and production process. For OEM buyers sourcing [custom OEM EV chargers](#), four certification dimensions determine market access:

Safety certification — CE marking and TÜV testing verify that the product meets European requirements for electrical safety, low voltage operation, and electromagnetic compatibility, providing the baseline documentation that distributors and regulatory authorities expect.

Environmental compliance — RoHS certification confirms that restricted hazardous substances (lead, mercury, cadmium, and others) are eliminated from the product's materials and manufacturing process, a requirement for placing electrical products on the EU market.

Electromagnetic compatibility — FCC approval demonstrates that the charger does not emit interference that could disrupt nearby electronic devices, a mandatory step for entering the North American market.

Process-embedded certification — rather than treating certification as a final-stage label application, the manufacturer integrates third-party testing into product development, ensuring that each custom design arrives with its target market's documentation already in place.

These four certification dimensions together form a framework for evaluating an OEM supplier's market access capability. Feyree's custom OEM EV chargers cover all four — each backed by verifiable documentation from accredited third-party laboratories, supporting product distribution across North

America, Europe, and beyond. The following sections examine each dimension in detail.

CE and TÜV — European Market Entry Requirements

For OEM buyers targeting the European market, CE marking and TÜV certification constitute the baseline safety credentials that distribution partners and regulatory authorities expect. These two certifications work together across three dimensions:

Safety compliance — CE marking under the Low Voltage Directive and EMC Directive confirms that the charger meets Europe's legal requirements for electrical products sold within the EU and EEA. The TÜV certification for cable components adds independent verification by German-accredited laboratories, testing beyond the self-declaration requirements of CE marking.

Built-in protection systems — as part of the CE compliance framework, Feyree's chargers integrate Type B residual current protection (AC 30 mA and DC 6 mA), the level required for EV charging equipment under European installation standards.

Traceable test documentation — certification certificates are issued by accredited third-party laboratories, not by the manufacturer. Each certificate carries a unique reference number and is available for OEM buyers to verify through the issuing body's database.

Feyree's custom OEM chargers hold CE certification, with TÜV certification applying to the cable components, with complete documentation available for buyer verification. More product and certification details are available at the [Feyree product page](#).

RoHS — Environmental Compliance in Electrical Products

The Restriction of Hazardous Substances (RoHS) directive limits the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers in electrical and electronic equipment placed on the European market. For custom OEM EV chargers, RoHS compliance is verified through material declarations and component sourcing records rather than through product-level testing alone. Feyree integrates RoHS compliance at the design stage by specifying 100 percent lead-free PCB manufacturing and selecting component suppliers that provide RoHS-compliant certification documentation. The charging cable jacket uses TPU (thermoplastic polyurethane) insulation — a material that meets RoHS requirements while providing the flexibility, UV resistance, and abrasion performance needed for daily charging use. Rather than treating environmental compliance as a separate documentation exercise, Feyree's material selection process incorporates RoHS requirements alongside performance specifications, ensuring that certified chargers maintain the same mechanical and electrical properties as standard production units.

FCC — Accessing the North American Market

For OEM buyers distributing charging equipment in the United States and Canada, FCC approval is a mandatory requirement that verifies the product does not generate electromagnetic interference that could disrupt other electronic devices operating in the same environment. The certification process involves testing the charger's radiated and conducted emissions against FCC Part 15 limits. Feyree's wallbox and portable charger lines hold FCC approval, with wide voltage compatibility (single-phase 85 V to 264 V and three-phase 160 V to 450 V, supporting 50 Hz and 60 Hz) and adjustable current settings from 8 A to 32 A that align with North American residential and commercial electrical configurations. OEM buyers can reference the FCC ID on each certified product to verify approval status through the FCC database. Complete certification documentation and product specifications are available at the [official website](#).

Integrating Certification into the OEM Development Process

Certification is not a final-stage label applied after production. Feyree's OEM program embeds third-party testing into a structured four-stage development process:

Consultation and requirements — the engineering team studies the client's target market and identifies the certification combination required (CE, TÜV, RoHS, FCC, UKCA, or others) before design work begins.

Design and prototyping — industrial design, PCB engineering, firmware development, and enclosure prototyping are handled in-house, with certification requirements factored into material selection, circuit design, and enclosure specifications from the start.

Certification and testing — Feyree coordinates all required third-party testing through accredited laboratories, so the finished product arrives with the regulatory documentation package for its target market already in place.

Production and after-sales — mass production with full QC, on-time delivery, and dedicated technical support for the product's lifecycle. Certificate copies are maintained and available for customs clearance and distributor qualification throughout the production run.

In addition to third-party certifications, Feyree holds multiple design and utility patents registered with China's National Intellectual Property Administration, covering aspects of product design and charging technology that complement the certified safety and performance baseline.

For OEM buyers sourcing custom OEM EV chargers, a well-documented certification portfolio means a faster path from production approval to market availability. By embedding third-party certification into the product development process rather than adding it after production, Feyree ensures that each custom OEM project arrives with the regulatory documentation its target market requires. Product specifications and OEM partnership inquiries are available at the official company website: <https://www.feyree.com/>.



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