

Electric Vehicle Supply Equipment

Testing and Certification Services

Intertek

Valued Quality. Delivered.



Intertek enables manufacturers to get revolutionary products to market faster. ETL Certification from Intertek enables you to launch your product more quickly, more efficiently, and more cost-effectively across global markets. We offer one-stop certification solutions for all Electric Vehicle Supply Equipment (EVSE) that could ultimately re-charge the automotive industry.

With more than 100 years of product testing experience, and the world's largest network of independent safety, performance and EMC testing laboratories, Intertek is able to deliver the industry's fastest turnaround times to our clients. We help manufacturers introduce new products and new technologies to the market *faster*. And with global markets making business more competitive than ever, speed to market can be the difference between a product that sits or a product that succeeds.

Intertek is the industry's test partner of choice for EVSE, including charging stations, cordsets, plugs, and ancillary components.



Adding Value to Electric Vehicle Batteries and Charging Stations

- Intertek assesses more than 20,000 batteries each year, covering all chemistries and sizes.
- With over 50 years of experience in automotive testing, Intertek helps you keep up with the speed of changing vehicle technologies.



Testing and Certification for EVSE

With the advent of Electric Vehicle technology, there is growing concern over the safety of Electric Vehicles and their charging systems. Intertek can help ensure your EV-related products and components are safe for use, testing to a variety of SAE and UL standards:

- On-Board Battery Chargers: SAE J2894 and UL 2022
- Charging Inlet: UL 2251
- Charging Station: SAE J2293 and UL Subject 2594
- Charging Plug: SAE J1772 and UL 2251
- Personal Protection Circuitry: UL 2231-1 and UL 2231-2
- Cordsets: UL 2231-1, UL 2231-2, UL 2251

Not Just A Testing Lab - A Testing Partner

As an OSHA-Recognized NRTL, it is Intertek's speed, responsiveness, and flexibility in creating a test program that meets manufacturers' deadlines that allow us to give you a competitive edge.

True to our roots, which can be traced back to the laboratory founded by Thomas Edison in 1896, Intertek is staffed by experienced, industry-specific testing experts who understand your products, markets and objectives, and who bring insight and greater efficiency to the testing process.

We actively participate in many industry organizations and committees - including SAE, UL & International Association of Electrical Inspectors (IAEI) - to stay abreast of ever-changing testing standards and practices.

Energy Storage Testing & Advisory Services

- Battery Safety Testing
- Battery Performance Testing
- Battery Fire and Abuse Testing
- Battery Consulting and Advisory Services
- UN Transportation Testing (UN/DOT 38.3) for Lithium Batteries
- Battery Post-Mortem Analysis
- Battery Testing for CTIA Certification in Wireless and Computer Devices
- Fuel Cell Consulting and Advisory Services
- Fuel Cell Performance and Safety Testing
- Electric Vehicle Battery Testing
- EV Components Testing - Electric Vehicle Supply Equipment (EVSE)

EVSE Products and Applications

Intertek has provided testing services to the automotive industry for decades. Today, we are your single-source global testing partner for EV batteries, charging stations, protection circuits, cordsets, plugs and ancillary components:

- **Wall Mount Charge Station for Homeowners** - Typically mounted in the homeowner's garage and connected to 240VAC 60Hz source for high amperage charging.
- **Vehicle Inlet** - Standard power inlet for coupling to Standard SAE 1772 Coupler.
- **Travel Cordset Charge Station for Homeowners** - Typically carried in the vehicle for charging while on the road; connects to 120VAC 60Hz source for lower amperage charging.
- **Municipal Charging Station** - Can be provided with both 120VAC 60Hz and 240VAC 60 Hz sources and mounted anywhere, such as in parking lots, hotels etc. May be provided with a variety of options for things such as credit card readers, I/O ports for recording data etc.
- **Vehicle Coupler** - Standard configuration coupler for providing power to the on-board charger. Specified by SAE 1772.

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