



ENERGY & POWER TECHNOLOGIES

Accelerate Efficiency in Your Battery Charger Certifications

Global bundles available for EV and industrial chargers

With battery use becoming ubiquitous, the need for battery chargers is increasing rapidly. UL tests to help ensure compliance and provides an unparalleled assurance, confidence and a competitive edge in the marketplace.

Product designs benefit from combined testing and certification for varying needs such as safety, energy efficiency, reliability and performance. UL's expertise will help continue the momentum of innovation. We look forward to being your preferred experts and providers.

By bundling your North American (UL Mark) and international safety (CB Scheme) certifications, you access the global market with a streamlined approach. Adding performance and reliability testing will help set your product apart from the competition. The experience of UL's experts is trusted around the world and can guide you through the web of compliance requirements to get your products to market quickly and efficiently.

UL can also assist you in obtaining the California Energy Commission reports and the EnergyStar™ energy efficiency label at the same time as completing other testing or certification.

Our global network of expert engineers helps you understand the various national and global requirements, including country deviations for your specific market application. UL's state-of-the-art facilities cut through the red tape and help accelerate your time to market.

Why choose UL?

UL spearheads global research and Standards development to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL's technical experts, along with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders, helps manufacturers gain the compliance credentials they need to compete in a more complex global supply chain.



For more information, contact EnergyTechQuote@ul.com, call us at 847.272.8800 or visit UL.com/chargers.



Product Services

End-product and Component Certification
Performance and Reliability Testing
System Failure Mode and Effect Analysis
Functional Safety
Field Evaluation Services

Energy Efficiency Services

ENERGY STAR
California Energy Commission (CEC)

Interoperability Services

Electromagnetic Compatibility (for Safety, Emissions and Immunity)
FCC
Cybersecurity
CHAdEMO verification

EV Applications

ANSI/UL 2202 - Electric Vehicle Charging System Equipment (AC to DC)

ANSI/UL 2594* - Electric Vehicle Supply Equipment (AC to AC)

UL 2750 - Wireless Charging Equipment for Electric Vehicles

ANSI/UL 2231-1* - Personal Protection Systems for Electric Vehicle Supply Circuits – General ANSI/Requirements (referred to in UL 2202 / UL 2594)

ANSI/UL 2231-2* - Personal Protection Systems for Electric Vehicle Supply Circuits – Protective Devices for use in Charging Systems (referred to in UL 2202 / UL 2594)

ANSI/UL 2251* - Electric Vehicle Plugs, Receptacles and Couplers

Electric Vehicle Supply Equipment Version 1.0 - EPA Energy Star

CHAdEMO protocol - Protocol verification

**Harmonized tri-national North American Standards (U.S., Canada and Mexico)*

Certification Body (CB) Scheme Certificates:

- **IEC 61851-1** - Electric Vehicle Conductive Charging Systems – General Requirements
- **IEC 61851-22** - Electric Vehicle Conductive Charging Systems – AC to AC Connections
- **IEC 62196 series** - Plugs, Socket-Outlets, Vehicle Connectors & Vehicle Inlets – Conductive charging of electric vehicles

Industrial Applications

ANSI/UL 1012 - Power Units Other Than Class 2

ANSI/UL 1236 - Battery Chargers for Charging Engine-Starter Batteries

ANSI/UL 1310 - Class 2 Power Units

ANSI/UL 1564 - Industrial Battery Chargers

California Code of Regulations - Title 20, Sections 1601 through 1608 - Appliance Efficiency Regulations

10 C.F.R. section 430.23(aa) - Appendix Y to Subpart B of Part 430 - Uniform Test Method for Measuring the Energy Consumption of Battery Chargers

Certification Body (CB) Scheme Certificates:

- **IEC 60335-2-29** - Household and Similar Electrical Appliances – Particular Safety Requirements for Chargers

Enter New Markets Compliance for country or regional regulations is available through UL.

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