

Electric vehicles (EV) charging stations

Building reliable, safe, and public EV charging stations with fast charging times is essential to keep the EV market growing. Drawing on engineering and manufacturing experiences from our many products and our team of global subject matter experts, Flex is well-positioned to support the fast-growing EV charger market and related infrastructure.



A comprehensive approach to building your commercial and home EV charging stations

Commercial EV charging station

Design and manufacturing support

Power modules

- AC/DC power electronics
- DC/DC power electronics
- Auxiliary AC/DC power supply
- Battery management system

Metal enclosure

- Weather and tamper proof enclosures



Engineering and manufacturing support

User interface and network connectivity

- Display/touchscreen
- Wireless communication
- 5G, IoT, controls
- Vehicle communication

Mechanical systems

- Magnetic sensors
- Temperature sensors
- Cooling systems
- Charging plug

Electrical distribution systems

- Circuit breaker and fuse blocks with global approvals
- Earth fault relay
- Current transformer

Personal residence EV charging station

Design and manufacturing support

Power modules

- AC/DC power electronics

Metal enclosure

- Tamper proof enclosures



Engineering and manufacturing support

User interface and network connectivity

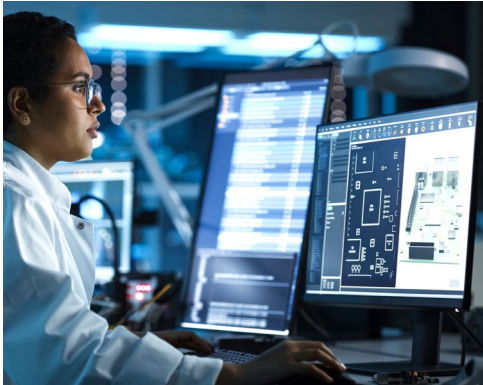
- Display screen
- Wireless communication
- Vehicle communication

Mechanical systems

- Temperature sensors
- Charging plug

Electrical distribution systems

- Circuit breaker and fuse blocks with global approvals



Design and engineering

- Full product design and testing services for AC chargers and lower power DC chargers
- Apply a comprehensive DfX and VA VE approach to support cost reductions
- Support the development of system boards that can future proof against new product iterations

Manufacturing

- System integration
- Reduce logistics costs for end product users
- Manufacturing locations in the Americas, Europe, and Asia to take advantage of regional and government subsidies and incentives
- Support rapid volume growth with high quality execution
- Provide forward and reverse logistic services such as warranty repair and refurbishing for EV chargers for our customers

Supply chain

- Relying on a responsive global supply chain and a Preferred Supply List helps reduce and manage costs
- Vertical integration of suppliers
- Understand regulatory landscape and have ability to apply circular economy solutions

For more information, visit flex.com/connect.

Flex (Reg. No. 199002645H) is the manufacturing partner of choice that helps a diverse customer base design and build products that improve the world. Through the collective strength of a global workforce across 30 countries and responsible, sustainable operations, Flex delivers technology innovation, supply chain, and manufacturing solutions to various industries and end markets.

