Electric vehicle (EV) charging stations

Exceptionally positioned for a bright future

The global market for electric vehicles (EVs) is projected to grow at a robust pace for the next several years. This demand is driven by efforts to reduce carbon emissions, the desire for high-performance vehicles, continuous improvements of EV technology and government incentives.

We have extensive experience in designing, engineering and manufacturing all types of EV charging stations

Personal residence EV charging station

Design support

Power modules

AC/DC power electronics

Metal enclosure

Tamper proof enclosures

Mechanical systems

- Temperature sensors
- Charging plug

Electrical distribution systems

Circuit breaker and fuse blocks with global approvals

Commercial EV charging station

Design support

Power modules

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

Metal enclosure -



Engineering and manufacturing support

- User interface and network connectivity
- Display/touchscreen ٠
- Wireless communication
- 5G, IoT, controls
- Vehicle communication

Engineering and manufacturing support

3

1 🛞

((

2 🛞

User interface and network connectivity

- Display screen
- Wireless communication
- Vehicle communication



Weather and tamper proof enclosures

L Mechanical systems

- Magnetic sensors ٠
- Temperature sensors
- Cooling systems
- Charging plug

Electrical distribution systems

- High speed fuses
- UL class fusers and fuse block
- Earth fault relay
- Current transformer

Types of charging stations

The level of the charging station is based on the charge rate.



Level 1- slow charging

- Fully charged in 10+ hours
- 3 and 5 miles of range per hour of charge
- Personal residence

Level 2 - fast charging

- Fully charged in 9 hours
- 25 miles of range per hour of charge
- Business, retail, public places and some homes





Level 3 - DC fast charging station and energy storage system

- Fully charged in 1.5 hours
- 200 miles of range per hour of charge
- Locations along public highways or freeways

For more information, visit **flex.com/connect**. Work with Flex to build reliable, safe EV charging stations with fast charging times.

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.

©2021 FLEX LTD. All rights reserved. Flextronics International, LTD.

