

Express Plus

The Future of Ultra-Fast DC Charging



ChargePoint Express Plus is a family of ultra-fast DC charging products designed to meet the charging requirements of both current and next-generation electric vehicles (EVs), including cars, buses and trucks. The innovative design of ChargePoint Express Plus employs a modular, scalable architecture that allows station owners to purchase only what they need and scale up as demand grows, with no stranded investment along the way.

The ChargePoint® Express Plus architecture consists of three modular building blocks, described below. They can be configured to meet the exact requirements at any site and scale incrementally as demand for charging increases.

Power Modules

Self-contained AC to DC power conversion system that operates at an output of between 200 and 1,000 V and delivers up to 31.25 kW at a max current of 78 amps (A). Power Modules are sealed units, easily installed in Power Blocks in the field without any special tools or technical expertise.

Express Plus Stations

Dispense power to EVs and can support up to two flexible, lightweight cables compatible with all standard connector types.

Each Express Plus Station can connect up to four Power Blocks to deliver up to 500 kW to a single vehicle. There's a 254 mm (10 in) LCD touchscreen for driver interaction, 508 mm (20 in) wide-format LED display for notifications, area lighting, WiFi and Bluetooth connectivity and much more. Built-in cellular networking enables remote management via ChargePoint Cloud Services.

Power Blocks

House up to 5 Power Modules in an attractive form factor that services up to 2 Express Plus Stations in a fully integrated system. Power Blocks can be stacked 2 high and expanded to serve additional stations and/or supplement power to each station. Power Blocks have AC input, DC outputs, cooling, system controls and networking for remote diagnostics and management.

Innovative Engineering and Design

- + Novel modular Power Block design allows growth in charging capacity in 31.25 kW increments and scales as demand for power increases
- + Highest volumetric power density in the industry, delivered through the Power Block
- + High-efficiency power conversion (95% efficiency reduces electricity costs and wasted energy)
- + Ergonomic, consumer-friendly Express Plus Stations delight drivers and make it convenient, easy and fast to charge
- + Attention to design details and quality construction create the best possible station owner brand perception

Dynamic Power and Energy Management

- + Intelligent management of power distribution to cars minimizes driver dwell times and maximizes station utilization
- + Dynamically manage power output via cloud platform
- + Total output power can optionally be configured to manage electrical costs or meet site-specific requirements

Station Management

- + Connected to the largest open EV charging network in the world, serving the largest community of EV drivers
- + Access controls manage how drivers access stations and how much they pay
- + Reports cover utilization, charging sessions, energy usage, costs and much more
- + Over-the-air updates to system software ensure the latest features are always available
- + Remote diagnostics allow support teams to identify problems before they impact drivers
- + Modular components are field installable without any specialized tools or expertise

Driver-Friendly Express Plus Stations

- + Authentication through NFC, RFID, plug and charge, mobile apps and in-dash navigation systems
- + 24/7 phone support for drivers
- + Two displays for optimal driver interaction show state of charge, session pricing, energy dispensed, current wait times and more, all in real-time

High Reliability and Fault Tolerance

- + Minimal moving parts and liquid cooling technology increase reliability and minimize ongoing field service for maintenance
- + Configurable levels of Power Module redundancy to minimize downtime

- + Power Module duty cycle is intelligently managed to extend lifetime
- + Instrumentation for remote monitoring, intelligent diagnostics and machine learning predicts failures and ensures high availability

When Charging is Mission Critical, Protect Your Investment with ChargePoint Assure

- + **Minimize downtime:** ChargePoint Assure provides the most comprehensive EV Station maintenance and management in the industry
- + **Get up and running quickly and flawlessly:** Professional guidance for station configuration saves you time, and unlimited changes to station policies flexibly supports your business
- + **Eliminate unexpected future expenses:** Cost for parts and on-site labor to install is covered for all Assure eligible repairs
- + **One less thing to worry about:** Proactive station monitoring provides you with regular reporting
- + **Reduced risk of downtime:** We guarantee 98% annual uptime and one business day response to requests
- + **Support when you need it:** We're there for you and your drivers. Phone support available for station owners Monday to Friday from 5 AM to 6 PM Pacific. Phone support for drivers is 24/7/365, so you never need to field a driver call

Universal Compatibility

- + Designed from the ground up to meet global needs, compatible with international electrical grid standards
- + Up to two different connectors per Express Plus Station supporting global connector standards (CHAdeMO, CCS1 and CCS2); other common connector types will be supported in the future
- + User interface supports touch control, works with gloves and is designed to resist vandalism
- + Lightweight charging cables on swing arms increase reach and makes it simple to plug in with one hand
- + Integrated cable management keeps cables off the ground

Mobile and In-Dash Apps for Drivers

- + Real-time availability of stations on the network
- + Queuing for charging spots
- + Typical wait times help drivers determine the most convenient time to charge
- + Charging status updates by the second with configurable desired state of charge
- + Intuitive mobile app or in-dash systems make it easy for drivers to locate and use stations

Power Module

- + Self-contained AC to DC power conversion system
- + Output range between 200V and 1,000V DC
- + Delivers up to 31.25 kW at a max current of 78A
- + Sealed units, easily installed in Power Blocks in the field



Power Module

Power Block

- + Contains 5 power modules that provide 31.25 kW each
- + Supports cars with charging voltages up to 1,000V
- + Easy to scale and upgrade by adding more Power Modules and Power Blocks
- + Delivers up to 156 kW with a single Power Block
 - Up to 500 kW when scaled with multiple Power Blocks
- + Power Block Dimensions (height x length x depth):
 - 1,100 mm x 1,000 mm x 1,900 mm (3'7" x 3'4" x 6'3")
One Power Block
 - 2,025 mm x 1,000 mm x 1,900 mm (6'8" x 3'4" x 6'3")
Double Stacked Power Block



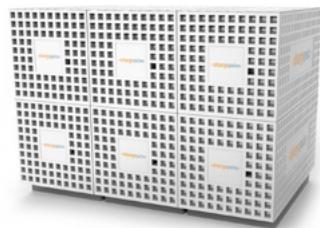
Power Block



Two Power Blocks



Four Power Blocks



Six Power Blocks

Express Plus Station

Cable management keeps cables off the ground and makes it easy to reach car charging port in any location

Dimensions of
2,230 mm x 712 mm x 420 mm
(7'4" x 2'4" x 1'4")

254 mm (10 in) LCD touch display shows pricing, energy usage and more

508 mm (20 in) LED display shows real-time availability, wait times, state of charge, station pricing and more



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