

Express Plus

The Future of Ultra-Fast DC Charging



Power Module



Power Block



Express Plus Station

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 1000 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 or Express Plus Stations in the field without any special tools or technical expertise.

Express Plus Stations

Dispense power to EVs and can support up to three flexible, lightweight cables compatible with all standard connector types. Each Express Plus Station houses two Power Modules and can

connect with a Power Block to deliver up to 500 kW to a single vehicle. There's a 10-inch LCD touchscreen for driver interaction, 20-inch wide-format LED display for notifications, cameras, 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 4 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 output 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

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

Easy to Service

- + Modular components are field installable without any specialized tools or expertise
- + Backed by ChargePoint Assure, an industry-leading parts and on-site labor warranty

Universal Compatibility

- + Designed from the ground up to meet global needs, compatible with international electrical grid standards
- + Up to 3 different connectors per Express Plus Station supporting global connector standards (CHAdeMO, CCS1, CCS2 and GB/T); 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 cords on swing arms increase reach and makes it simple to plug in with one hand
- + Integrated cord management keeps cords 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

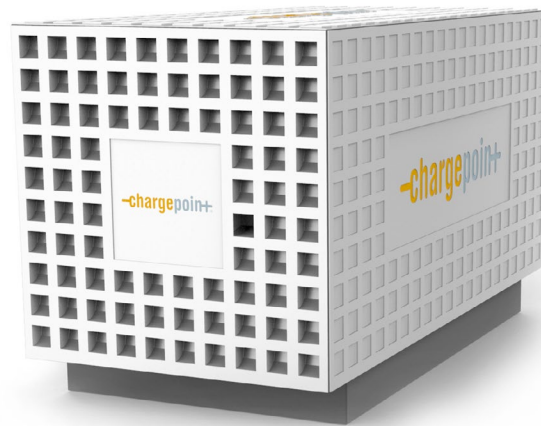
- + Self-contained AC to DC power conversion system
- + Output range between 200 V and 1000 V DC
- + Delivers up to 31.25 kW at a max current of 78 A
- + Sealed units, easily installed in Power Blocks or Express Plus Stations in the field



Power Module

Power Block

- + Contains 4 cases of power modules that provide 31.25 kW each
- + Supports cars with charging voltages up to 1000 V
- + Easy to scale and upgrade by adding more Power Modules and Power Blocks
- + Delivers up to 500 kW of power
- + Power Block Dimensions (height x length x depth):
 - 1100 mm x 875 mm x 1750 mm (3 ft 7 in x 2 ft 11 in x 5 ft 9 in) One Power Block
 - 1900mm x 875mm x 1750mm (6 ft 3 in x 2 ft 11 in x 5 ft 9 in) Double Stacked Power Block



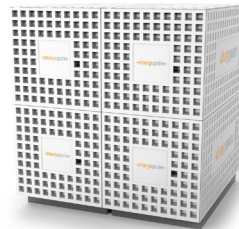
Power Block



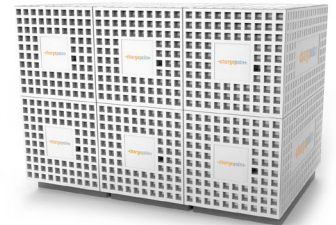
Power Block (Interior)



Two Power Blocks



Four Power Blocks



Six Power Blocks

Express Plus Station

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

10" LCD touch display shows pricing, energy usage and more

Cameras enable license plate detection for pre-authorization, occupancy detection and additional security

Dimensions of
2230 mm x 712 mm x 420 mm
(7 ft 4 in x 2 ft 4 in x 1 ft 4 in)

20" LED display shows
real-time availability, wait
times, state of charge,
station pricing and more

Each station can dispense
a maximum of 500 kW

Supports CHAdeMO, CCS1, CCS2
and GB/T connectors; other
common connector types will
be supported in the future

Configurable with 1, 2 or 3
connectors per station

Learn More

To learn more about ChargePoint Express Plus:

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