

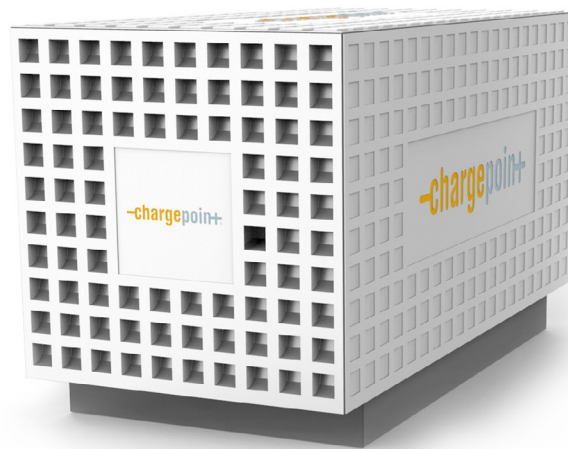
# Express Plus

Specifications for Power Block, Power Modules and Station



Power Module

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Power Block

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Express Plus Station

## Express Plus Specifications

### Power Block Electrical Input

Input Rating	380-480 V AC, 3phase, 160-200 A, 50/60 Hz
Wiring	L1, L2, L3, Ground

### Power Module

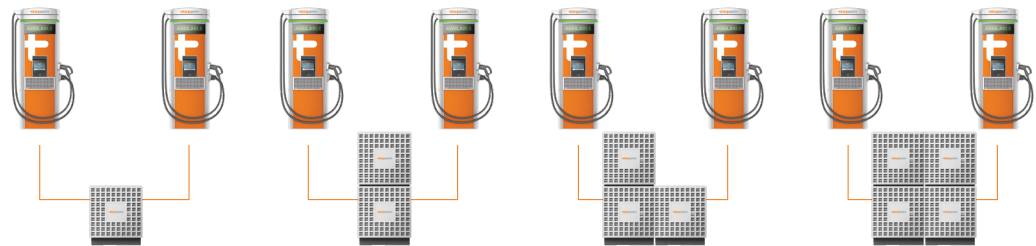
Max Output Power	31.25 kW
Max Output Current	78 A
Power Conversion Efficiency	95%
Power Factor	0.99
Harmonics	iTHD < 5% (Complies with IEEE 519 Requirements)

### Station Electrical Output

Max Output Power	500 kW with Power Blocks
Output Voltage, Charging	200 V - 1000 V DC
Max Output Current	500 A with Power Blocks

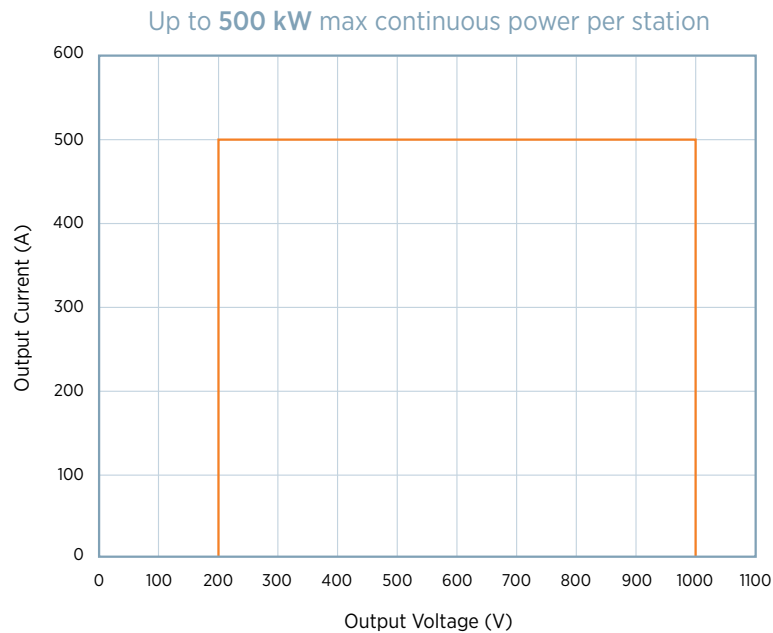
### Power Block Electrical Output

Max Output Power	125 kW @ 400 - 1000 V
Output Voltage	200 V - 1000 V DC
Max Output Current	312 A
Number of Stations Served	One block can serve up to 2 stations. Modular design enables additional blocks to be added to serve more stations.
Max Modules per Power Block	4



### Example Configurations

	A	B	C	D
Maximum power/port (kW)	125	250	375	500
Simultaneous power/port (kW)	62.5	125	187	250



### Generic Specifications

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
Station Dimensions	2230 mm x 712 mm x 420 mm (7 ft 4 in x 2 ft 4 in x 1 ft 4 in)
Power Module Dimensions	760 mm x 430 mm x 130 mm (2 ft 6 in x 1 ft 5 in x 5 in)
Power Block Weight (without modules)	200 kg (440 lb)
Station Weight	250 kg (551 lb)
Power Module Weight	38 kg (84 lb)
Power Block and Station Enclosure Rating	Type 3R, IP44
Cooling Type	Module: Liquid Cooled. Cable: Liquid Cooled
Operational Altitude	<2000 m (<6500 ft)
Operating Temperature	-30° C to +50° C (-22° F to +122° F)
Storage Temperature	-40° C to +50° C (-40° F to +122° F), 50% relative humidity
Operating Humidity	Up to 95% @ +50° C (+122° F) non-condensing

### Station Functional Interfaces

Max Connector Types per Station	Up to three different connector types per station
Supported Connector Types	CHAdeMO, CCS 1 (SAE J1772™ Combo), CCS2 (IEC 61851-2)
Cable Length	4.4 m (14.5 ft) horizontal reach with cable management
Driver Interaction Display	Full-color 10-inch LCD display for driver interaction
Top Display	Full-color 20-inch LED display for notification with tri-color LED status bar
Authentication	RFID: ISO 15693, ISO 14443, NEMA EVSE 1.2-2015 (U <sub>R</sub> ) Tap to Charge (NFC on Apple & Android) Plug and Charge: IEC 15118-1 Remote: Mobile and in vehicle (if supported by vehicle)

## Energy Management Features

Dynamic Power Management	Dynamically distribute power to each station to optimize charging time
Power Module Energy Balancing	Balances the number of hours of operation of each module and optimizes power module usage
Remote Energy Management	Manage output power via the ChargePoint Admin Portal, API, and Open ADR 2.0b VEN

## Connectivity Features

Local Area Network	2.4 GHz and 5GHz WiFi (802.11 b/g/n)
Wide Area Network	4G LTE (fall back to 3G GSM)
Supported Communication Protocols	OCPP
Service and Maintenance	Remote system monitoring, diagnostic, and proactive maintenance

## Regulatory Compliance

Vehicle Safety Communication	CHAdeMO – JEVS G104 over CAN, CCS1 – SAE J1772 over PLC and CCS2 – IEC 61851-23 over PLC
Plug-out Detection	Power terminated per JEVS G104 (CHAdeMO), SAE J2931 (CCS1) and IEC 61851-23 (CCS2) specification
Safety Compliance	For U.S., complies with UL 2202, UL 2231-1, UL 2231-2. For Europe, complies with: IEC 62196, IEC 61851, CE marking
Power Block and Station Surge Protection	Tested to IEC 61000-4-5, Level 5 (6 kV @ 3,000 A). In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
EMC Compliance	U.S.: FCC part 15 Class A; EU: EN 55011, EN 55022 & IEC 61000-4




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