

Express Plus

Specifications for Power Block, Power Modules and Station



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Power Module

Power Block

Express Plus Station

Express Plus Specifications

Power Block Electrical Input

Input Rating	400V AC, 3-phase, 256A, 50 Hz 480V AC, 3-phase, 222A, 60 Hz
Wiring	L1, L2, L3, Ground
Short Circuit Current Rating	65 kA

Power Module

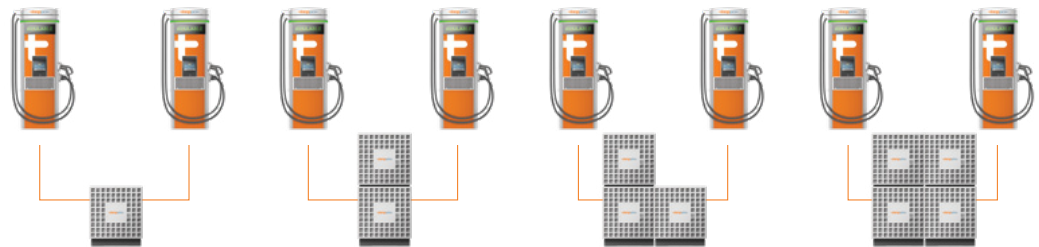
Max Output Power	31.25 kW
Max Output Current	78A
Power Conversion Efficiency	95%
Power Factor	0.99
Harmonics	iTHD < 5% (Complies with IEEE 519 Requirements)

Station Electrical Output

Max Output Power	500 kW with Power Blocks
Output Voltage, Charging	200-1,000V DC
Max Output Current	500A with Power Blocks

Power Block Electrical Output

Max Output Power	156 kW
Output Voltage	200-1,000V DC
Max Output Current	390A
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	5



Example Configurations

	A	B	C	D
Maximum power/port (kW)	156	312	468	500
Simultaneous power/port (kW)	62.5/93.7	156	218/250	312

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Generic Specifications

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
Station Dimensions	2,230 mm x 712 mm x 420 mm (7'4" x 2'4" x 1'4")
Power Module Dimensions	760 mm x 430 mm x 130 mm (2'6" x 1'5" x 5")
Power Block Weight (without modules)	200 kg (440 lb)
Station Weight	250 kg (551 lb)
Power Module Weight	38 kg (84 lb)
Power Block Enclosure Rating	Type 3R, IP56
Station Enclosure Rating	Type 3R, IP44
Cooling Type	Module: Liquid Cooled. Cable: Liquid Cooled
Operational Altitude	<3,000 m (<9,842.5 ft)
Operating Temperature	-30°C to 50°C (-22°F to 122°F), no degradation
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 two different connector types per station
Supported Connector Types	CHAdeMO, CCS1 (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 254 mm (10 in) LCD display for driver interaction
Top Display	Full-color 508 mm (20 in) LED display for notification with tri-color LED status bar
Authentication	RFID: ISO 15693, ISO 14443, NEMA EVSE 1.2-2015 (U _R) Tap to Charge (NFC on Apple & Android) Plug and Charge: IEC 15118-1 Remote: Mobile and in vehicle (if supported by vehicle)

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Energy Management Features

Dynamic Power Management	Dynamically distribute power to each station to optimize charging time
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 5 GHz 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)
Safety Compliance	UL listed: complies with UL 2202, UL 2231-1, UL 2231-2 CE marking: complies with IEC 62196, IEC 61851
Power Block and Station Surge Protection	Tested to IEC 61000-4-5, Level 5 (6 kV @ 3,000A). 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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