Express 250

Specifications

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Station Electrical Input

Input Rating	380–480 VAC, 3 phase, 105–80 A, 50/60 Hz
Wiring	5 conductors (L1, L2, L3, N, Ground)

Station Electrical Output

Max Output Power	62.5 kW
Output Voltage, Charging	200 V – 1000 V DC
Max Output Current	156 A
Max Modules per Station	2

Power Module

Max Output Power per Module	31.25 kW
Max Output Current per Module	78 A

Station Functional Interfaces

Max Connector Types per Station	Up to 3 different connector types per station
Supported Connector Types	CHAdeMO, CCS1 (SAE J1772™ Combo), CCS2 (IEC 61851-23), GB/T (20234.3-2011 DtC)
Cord Length	3.8 m (12.5 ft)
Driver Interaction Display	Full-color 10-inch LCD display for driver interaction
Top Display	Full-color 20-inch LED display for notifications
Authentication	RFID: ISO 15693, ISO 14443, NFC Plug and Charge: IEC 15118-1 Remote: Mobile and in vehicle (if supported by vehicle)

Measurement & Connectivity Features

Power Measurement Accuracy	+/- 1% from 10% to full scale
Power Report/Store Interval	10 seconds
Driver Power Reporting	One second
Local Area Network	2.4 GHz and 5 GHz WiFi (802.11 b/g/n)
Wide Area Network	3G GSM, 3G CDMA and LTE

Energy Management Features

Dynamic Power Management	Allows a fixed maximum power output per station or lets the system dynamically manage the power distribution per station
Power Module Energy Balancing	Balances the number of hours of operation of each module and optimizes power module usage
Remote Energy Management	Supported through the ChargePoint Network API services

Safety and Operational Ratings

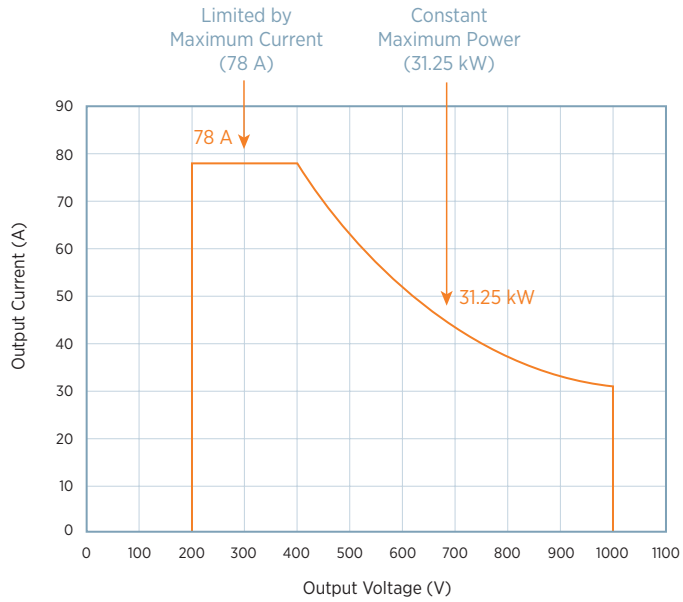| Vehicle Safety Communication	CHAdeMO – JEVS G104 over CAN, CCS1 – SAE J1772 over PLC and CCS2 — IEC 61851-23
Plug-out Detection	Power terminated per JEVS G104 (CHAdeMO), SAE J2931 (CCS1) and IEC 61851-23 (CCS2) specification
Station Enclosure Rating	Type 3R, IP 44
Safety Compliance	For U.S., complies with UL 2202, UL 2231-1, UL 2231-2. For Europe, complies with: IEC 62196, IEC 61851, CE marking
Station Surge Protection	Tested to IEC 6100-4-5, Level 5 (6 kV @ 3000 A). In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.
EMC Compliance	U.S.: FCC part 15 Class A; EU: EN55011, EN55022 & IEC61000-4
Power Conversion Efficiency	96%
Power Factor	0.99
Harmonics	iTHD < 7% (Complies with IEEE 519 Requirements)
Power Module Cooling	Liquid Cooling Technology
Operational Altitude	<2000 m (<6500 ft)
Operational High Altitude (Optional)	<4000 m (<13000 ft) (output power derating may apply)
Operating Temperature	-30° C to 50° C (-22° F to 122° F)
Storage Temperature	-40° C to 50° C (-40° F to 122° F)
Operating Humidity	Up to 95% @ 50° C (122° F) non-condensing

Generic Specifications

Station Dimensions	2.23 m x 1.12 m x 0.42 m (7 ft 4 in x 3 ft 8 in x 1 ft 4 in)
Station Weight (without Modules)	250 kg (551 lb)
Power Module Dimensions	0.76 m x 0.43 m x 0.13 m (2 ft 6 in x 1 ft 5 in x 5 in)
Power Module Weight	38 kg (84 lb)

Power Module Output Characteristic
31.25 kW

Limited by Maximum Current (78 A)

Constant Maximum Power (31.25 kW)

78 A

31.25 kW

Output Current (A)

Output Voltage (V)

Single Station Configuration

Express 250 Station
with 2 x 31.25 kW Power Modules

62.5 kW
Up to **62.5 kW** max continuous power per station

62.5 kW: Maximum Continuous Power per Station

62.5 kW

Output Current (A)

Output Voltage (V)

Printed on paper made with 100% post-consumer fiber and 100% certified renewable energy, and processed chlorine free.

100% Recycled Fiber

PCF