CHARGEPOINT EXPRESS SOLO | DC FAST CHARGING STATION

HARDWARE SPECIFICATIONS

QUOTATION/PRICING REQUESTS:
CONTRACTORS TO CONTACT ELECTRICAL DISTRIBUTORS.

OTHER INQUIRIES:
CONTACT CHARGEPOINT DIRECTLY VIA EMAIL AT SPECIFICATIONS@CHARGEPOINT.COM

OR VISIT CHARGEPOINT'S HOMEPAGE AT HTTPS://WWW.CHARGEPOINT.COM/#CHPT

FEATURES

- V2X CAPABLE - HARDWARE SUPPORTS BI-DIRECTIONAL POWER FLOW WITH COMPATIBLE UPSTREAM EQUIPMENT
- CHARGEPOINT OMNI™ PORT PROVIDES BOTH NACS (SAE J3400) & CCS1 (SAE J1772 COMBO) CONNECTORS AT EACH PORT
- FULL COLOR 15" DISPLAY WITH FULL MOTION VIDEO, UV PROTECTION, AND MULTI-LANGUAGE SUPPORT
- REAL-TIME, MULTICOLOR STATUS LEDS
- PAYMENT & SESSION AUTHORIZATION
  - RFID AUTHENTICATION FOR PAYMENT COMPLIANT TO ISO/IEC 15693 & ISO/IEC 14443
  - VIRTUAL RFID NFC (TAP TO CHARGE)
  - CONTACTLESS CREDIT CARD
  - VIRTUAL CONTACTLESS CREDIT CARD (APPLE PAY, GOOGLE PAY)
  - REMOTE AUTHENTICATION VIA CHARGEPOINT MOBILE DRIVER APP AND/OR IN-VEHICLE COMMUNICATION
- ISO 15118 SUPPORTED BY HARDWARE
- OCPP 2.0.1 COMPATIBLE
- BRANDABLE FRONT PANEL
- FTA, FHWA, AND BABA MODELS AVAILABLE
- SUPPORTS SIMULTANEOUS CHARGING OF VEHICLES WHEN ALL PORTS ARE IN USE
- OPTIONAL LIQUID COOLED CABLES
- OPTIONAL CUT-RESISTANT CABLES USING STAINLESS STEEL AND KEVLAR® REINFORCEMENT (NOT AVAILABLE WITH LIQUID COOLED CABLES)
- MULTIPLE CABLE LENGTH AND CABLE MANAGEMENT OPTIONS AVAILABLE - REFER TO CHART BELOW FOR MORE INFORMATION.

	SWINGARM CMK	OVERHEAD CMK
CABLE LENGTH	17'	25'
HORIZONTAL REACH	13' 9.5"	VARIES*
NOTE: HORIZONTAL REACH IS BASED ON THE CONNECTOR REACHING A CHARGING PORT THAT IS 2' ABOVE GRADE.		

ELECTRICAL

GENERAL ELECTRICAL SPECIFICATIONS

- OUTPUT VOLTAGE, CHARGING: 100 TO 1000 VDC
- SHORT CIRCUIT CURRENT RATING: 100 kA
- POWER CONVERSION EFFICIENCY: UP TO 97%
- POWER FACTOR: 0.99 AT FULL LOAD
- HARMONICS: iTHD < 5% (COMPLIES WITH IEEE 519)
- STANDBY POWER: 60 W
- STATION SURGE PROTECTION: 6 kV @ 3000 A

UNITED STATES & CANADA

INPUT RATING: 480 V AC, 3ϕ, 60 Hz

MAX. OUTPUT POWER	AC NOMINAL INPUT CURRENT RATING	RECOMMENDED BREAKER SIZE
200 kW	258 A	350 A
400 kW	515 A	700 A
600 kW	769 A	1000 A

CANADA ONLY

INPUT RATING: 600 V AC, 3ϕ, 60 Hz

MAX. OUTPUT POWER	AC NOMINAL INPUT CURRENT RATING	RECOMMENDED BREAKER SIZE
225 kW	232 A	300 A
450 kW	463 A	600 A
625 kW	641 A	900 A

NETWORK COMMUNICATION OPTIONS

WIDE AREA NETWORK (WAN)

- INTEGRATED 4G LTE MODEM

LOCAL AREA NETWORK (LAN)

- WIRED ETHERNET UP TO 1 Gbps

TARGETED REGULATORY APPROVALS & CERTIFICATIONS

NOTE: TESTING IS IN PROGRESS

- cULus LISTING TO UL2202
- UL LISTING TO UL3141
- NTEP
- ENERGY STAR
- FCC PART 15 SUBPART B CLASS A
- INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC)(NFPA 70)

MOUNTING & ENCLOSURE

- STATION MUST BE MOUNTED ON A CONCRETE PAD
- TYPE 3R ENCLOSURE, IP55 RATED
- STATION IMPACT RATING: IK10
- MAX STATION WEIGHT: 2866 LBS (WITH ALL POWER MODULES INSTALLED)

ENVIRONMENT

OPERATING TEMPERATURE:
-40 °F TO 131 °F (-40 °C TO 55 °C) WITH DERATING

OPERATING HUMIDITY:
UP TO 95% AT 122 °F (50 °C) NON-CONDENSING

OPERATING ALTITUDE:
UP TO 9,800 FT (3,000 M) WITHOUT DERATING
UP TO 13,123 FT (4,000 M) WITH DERATING

ADDITIONAL RESOURCES

FOR MORE SPECIFICATION RESOURCES, VISIT THE CHARGEPOINT SPECIFICATIONS LIBRARY AT:
https://docs.chargepoint.com/spec-lib/content/pdfs/pdfs.htm

SOFTWARE & SERVICES

CHARGEPOINT CLOUD PLAN

CLOUD PLAN — REQUIRED

ALL CHARGEPOINT EXPRESS SOLO STATIONS REQUIRE AN ACTIVE CHARGEPOINT CLOUD PLAN PER CHARGING PORT.

SITE PREPARATION & STATION INSTALLATION

STATION INSTALLATION
REQUIRED - CUSTOMER-SUPPLIED

INSTALLATION OF EXPRESS SOLO STATIONS MUST BE COMPLETED BY A CHARGEPOINT DC CERTIFIED ENTITY WITH THE EXPRESS SOLO INSTALLATION MICROCREDENTIAL FROM CHARGEPOINT UNIVERSITY.

STATION COMMISSIONING & ACTIVATION

COMMISSIONING — REQUIRED

- INCLUDES ON-SITE VALIDATION OF EXPRESS SOLO STATIONS BY A CHARGEPOINT AUTHORIZED COMMISSIONING PARTNER (ACP) PRIOR TO ACTIVATION. ACP MUST BE CHARGEPOINT DC CERTIFIED WITH THE EXPRESS SOLO COMMISSIONING MICROCREDENTIAL FROM CHARGEPOINT UNIVERSITY.

ACTIVATION — REQUIRED

- INCLUDES ACTIVATION OF EXPRESS SOLO STATIONS BY A CHARGEPOINT DEPLOYMENT SPECIALIST.
- INCLUDES INITIAL SETUP AND CONFIGURATION OF POWER MANAGEMENT STRATEGIES, AS REQUIRED BY PROJECT NEEDS. REQUIRES STATION INSTALLER TO PROVIDE CHARGEPOINT WITH THE POWER MANAGEMENT FORM.

SUPPORT PLANS & WARRANTY

CHARGEPOINT ASSURE® — RECOMMENDED

- INCLUDES PARTS AND LABOR COSTS
- ALSO INCLUDES LABOR COSTS FOR DAMAGE CAUSED BY VANDALISM AND ACCIDENTS.
- INCLUDES COORDINATION FOR SERVICE VISITS BY A CHARGEPOINT TECHNICAL SUPPORT ENGINEER.
- INCLUDES PROACTIVE MONITORING VIA THE CHARGEPOINT PLATFORM.
- PROVIDES 98% ANNUAL STATION UPTIME
- GUARANTEED 1 BUSINESS DAY RESPONSE TIME AND ON-SITE 1 BUSINESS DAY AFTER PART DELIVERY.
- FOR MORE INFORMATION, REFERENCE THE ASSURE BROCHURE.
- ADDITIONAL COVERAGE AVAILABLE WITH ASSURE PRO.

STANDARD WARRANTY — INCLUDED

- 2 YEARS, PARTS ONLY; STATION MUST BE INSTALLED BY A CHARGEPOINT CERTIFIED TECHNICIAN.

ADDITIONAL SERVICES

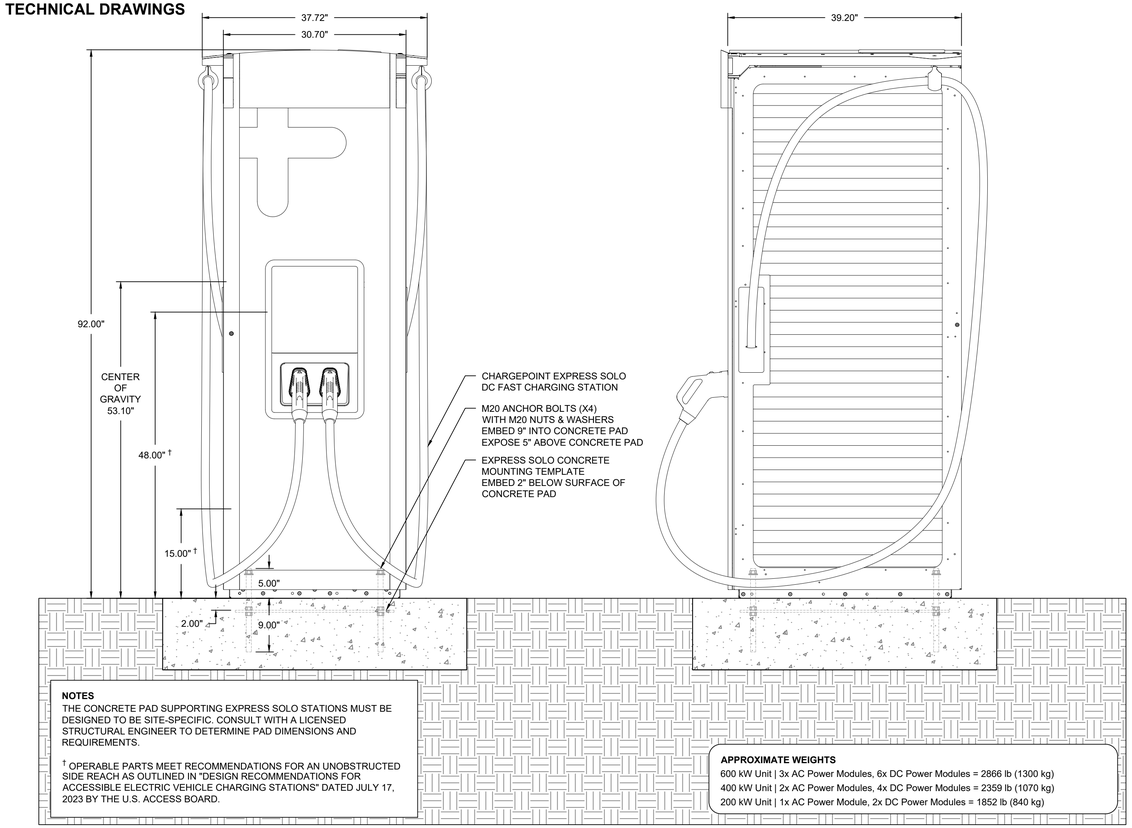
CHARGEPOINT PROTECT® (INCLUDED)

- REAL-TIME VANDALISM DETECTION AND PREVENTION THROUGH VISIBLE AND AUDIBLE ALARMS.

CHARGEPOINT PREMIER CARE

- PROVIDES A CHARGEPOINT DEDICATED POINT OF CONTACT FOR HANDLING PROACTIVE CASE MANAGEMENT, CHARGER CONFIGURATION MANAGEMENT, FINANCIAL REPORTING, AND TRAINING.

TECHNICAL DRAWINGS



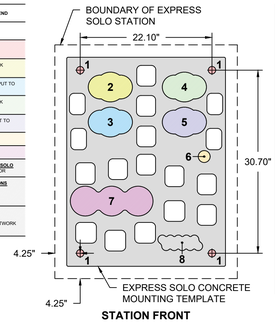
NOTES
THE CONCRETE PAD SUPPORTING EXPRESS SOLO STATIONS MUST BE DESIGNED TO BE SITE-SPECIFIC. CONSULT WITH A LICENSED STRUCTURAL ENGINEER TO DETERMINE PAD DIMENSIONS AND REQUIREMENTS.

† OPERABLE PARTS MEET RECOMMENDATIONS FOR AN UNOBSTRUCTED SIDE REACH AS OUTLINED IN "DESIGN RECOMMENDATIONS FOR ACCESSIBLE ELECTRIC VEHICLE CHARGING STATIONS" DATED JULY 17, 2023 BY THE U.S. ACCESS BOARD.

APPROXIMATE WEIGHTS
600 kW Unit | 3x AC Power Modules, 6x DC Power Modules = 2866 lb (1300 kg)
400 kW Unit | 2x AC Power Modules, 4x DC Power Modules = 2359 lb (1070 kg)
200 kW Unit | 1x AC Power Module, 2x DC Power Modules = 1852 lb (840 kg)

① **ELEVATIONS**
SCALE: 1" = 1'0"

EXPRESS SOLO - CONCRETE MOUNTING TEMPLATE LEGEND	
DIAGRAM CALLOUT	OPENING DESCRIPTION
1	ANCHOR BOLT LOCATIONS (1/4" KED ANCHOR BOLTS X4)
2	EXT D - HV DC OUTPUT TO POWER LINK STATION(S)
3	DC BUS (EXHAUST SIDE) - HV DC OUTPUT TO PAIRED EXPRESS SOLO STATION
4	EXT B - HV DC OUTPUT TO POWER LINK STATION(S)
5	DC BUS (INTAKE SIDE) - HV DC OUTPUT TO PAIRED EXPRESS SOLO STATION
6	AC SHUNT TRIP
7	HIGH VOLTAGE AC INPUT
8	**CONNECTION TO ANOTHER EXPRESS SOLO** ETHERNET & DOOR INTERLOCK SENSOR **CONNECTION TO POWER LINK STATIONS** - LOW VOLTAGE DC - ETHERNET - SAFETY HUB **OPTIONAL FEATURES** - SOFT SHUTDOWN SWITCH - HARDWIRE ETHERNET TO LOCAL NETWORK (FOR INTERNET CONNECTION)



② **EXPRESS SOLO CONCRETE MOUNTING TEMPLATE**
SCALE: 1" = 1'0"

EXPRESS SOLO - WIRING SPECIFICATIONS		
WIRE	QUANTITY	SIZE
AC INPUT	MAX 18 WIRES (SIX PER PHASE)	MAX 300 MCM*
AC GROUND	MAX 3 WIRES (ONE PER AC CONDUIT)	REFER TO LOCAL CODE FOR SIZING
HIGH VOLTAGE DC INTERFACE - DC BUS (INTAKE SIDE) - DC BUS (EXHAUST SIDE) - EXT B - EXT D	MAX 8 WIRES PER INTERFACE (FOUR PER POLE)	MAX 300 MCM*
HIGH VOLTAGE DC GROUND	MAX 2 WIRES PER INTERFACE (ONE PER INTERFACE CONDUIT)	REFER TO LOCAL CODE FOR SIZING
LOW VOLTAGE DC OUTPUT	MAX 4 WIRES (TWO WIRE PAIRS - EACH PAIR HAS ONE WIRE PER POLE)	6 AWG
SAFETY HUB	2 WIRES	14 AWG
ETHERNET	MAX 3 CABLES (ONE PER POWER LINK - MAX OF TWO POWER LINK CONNECTIONS PER EXPRESS SOLO, ONE FOR HARDWIRED ETHERNET CONNECTION, IF REQUIRED BY SITE)	OUTDOOR-RATED CAT6 STP**
DOOR INTERLOCK SENSOR	2 WIRES	16 AWG
SOFT SHUTDOWN SWITCH (OPTIONAL)	2 WIRES	14 AWG
SHUNT TRIP (OPTIONAL)	2 WIRES	14 AWG

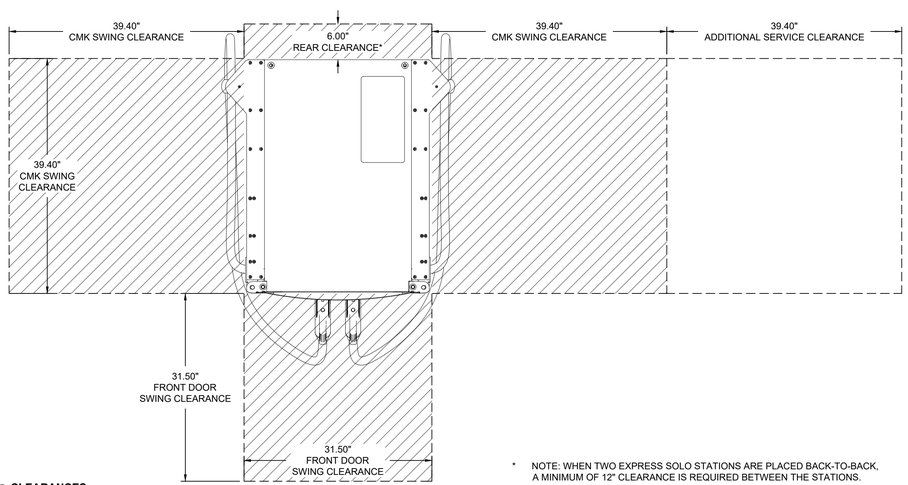
NOTES:
* IF ALUMINUM AA8000 CONDUCTORS ARE USED, MAX 400 MCM CAN BE ACCOMMODATED.

** THE REQUIRED ETHERNET CABLE TYPE DEPENDS UPON THE CABLE RUN LENGTH. REFER TO THE "ETHERNET REQUIREMENTS" SECTION OF THE EXPRESS SOLO SITE DESIGN GUIDE FOR MORE INFORMATION.

EXPRESS SOLO - CONDUIT SPECIFICATIONS	
CONDUITS FOR:	CONDUIT QUANTITY X TRADE SIZE
AC INPUT WIRES	3 X 4 INCH MAX
HIGH VOLTAGE DC INTERFACE WIRES: - DC BUS (INTAKE SIDE) - DC BUS (EXHAUST SIDE) - EXT B - EXT D	1 X 4 INCH MAX PER INTERFACE OR 2 X 3 INCH MAX PER INTERFACE
LOW VOLTAGE DC, ETHERNET, & SAFETY HUB WIRES CONNECTING TO POWER LINK DISPENSERS*	1 X 1 INCH TO EACH POWER LINK 1 INCH SIZE CONDUIT IS REQUIRED; QUANTITY OF CONDUITS DEPENDENT UPON CONFIGURATION.
ETHERNET & DOOR INTERLOCK SENSOR WIRES CONNECTING TO ANOTHER EXPRESS SOLO*	1 X 1 INCH
OPTIONAL FEATURES (SOFT SHUTDOWN SWITCH, SHUNT TRIP, HARDWIRED ETHERNET NETWORKING WIRES)	1 X 3/4 INCH MAX PER FEATURE

NOTES:
* LV DC, ETHERNET, & SAFETY HUB WIRES TRAVEL IN THE SAME CONDUIT WHEN PAIRING EXPRESS SOLO TO A POWER LINK DISPENSER.

** ETHERNET & DOOR INTERLOCK SENSOR WIRES TRAVEL IN THE SAME CONDUIT WHEN PAIRING AN EXPRESS SOLO TO ANOTHER EXPRESS SOLO.



* NOTE: WHEN TWO EXPRESS SOLO STATIONS ARE PLACED BACK-TO-BACK, A MINIMUM OF 12" CLEARANCE IS REQUIRED BETWEEN THE STATIONS.

③ **CLEARANCES**
SCALE: 1" = 1'0"

NOTE: THE INFORMATION IN THIS DOCUMENT IS ACCURATE AS OF THE DATE OF THIS DRAWING AND IS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT THE CHARGEPOINT SPECIFICATIONS LIBRARY AT https://docs.chargepoint.com/spec-lib/content/pdfs/pdfs.htm FOR THE MOST UP-TO-DATE VERSION OF THIS DOCUMENT AND OTHER SPECIFICATION RESOURCES

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