CHARGEPOINT CPF50 | LEVEL 2 AC EV CHARGING STATION

HARDWARE SPECIFICATIONS

FEATURES

- REAL-TIME LED STATION STATUS INDICATOR LIGHTS
- SUPPORTS EITHER NACS (J3400) OR J1772 CONNECTORS
- ISO 15693, ISO 14443, AND NFC CAPABLE
- ISO 15118 SUPPORTED BY HARDWARE
- BUILT-IN GFCI PROTECTION WITH AUTO RETRY
- PLUG-OUT DETECTION WITH POWER TERMINATED PER SAE J1772 SPECIFICATIONS
- INTEGRATED POWER MEASUREMENT WITH +/- 2% ACCURACY - CTEP & NTEP
- INTEGRATED 4G LTE CELLULAR MODEM
- OCPP 2.0.1 COMPATIBLE
- 24/7/365 DRIVER AND STATION OWNER SUPPORT

REGULATORY APPROVALS

- cULus LISTED
- COMPLIES WITH UL2594, UL2231-1, UL2231-2, AND NEC® 625
- ENERGY STAR® CERTIFIED
- FCC PART 15 CLASS B
- NTEP

MOUNTING & ENCLOSURE

- NEMA® 3R ENCLOSURE
- WALL OR PEDESTAL MOUNT

ELECTRICAL

- SINGLE PHASE 208 V~ OR 240 V~, 60 Hz
- 50 A MAX INPUT CURRENT PER PORT
  - UP TO 70 A BRANCH CIRCUIT PER PORT*
  - UP TO 12 kW OUTPUT POWER @ 240 V~ PER PORT
  - UP TO 10.4 kW OUTPUT POWER @ 208 V~ PER PORT
- STATION SURGE PROTECTION: 6 kV AT 3 kA

*CHARGEPOINT RECOMMENDS USING A 60 A BREAKER WITH A MAX CURRENT OF 48 A PER PORT USING POWER SELECT.

ENVIRONMENT

- OPERATING TEMPERATURE: -40°F TO 122°F (-40°C TO 50°C)
- STORAGE TEMPERATURE: -40°F TO 140°F (-40°C TO 60°C)
- OPERATING HUMIDITY: UP TO 95% AT 122°F (50°C) NON-CONDENSING
- NON-OPERATING HUMIDITY: UP TO 95% AT 122°F (50°C) NON-CONDENSING

ADDITIONAL RESOURCES

CPF50 DATASHEET:
https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cpf50/cpf50-fleet-ds.pdf

CPF50 SITE DESIGN GUIDE:
https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cpf50/cpf50-sdg.pdf

INSTALLATION GUIDES AVAILABLE TO CERTIFIED INSTALLERS:
https://www.chargepoint.com/partners/training-certification

PRODUCT OPTIONS

MODEL NUMBER: CPF50-L18-PEDMNT-CMK6-DUAL-GW-USA

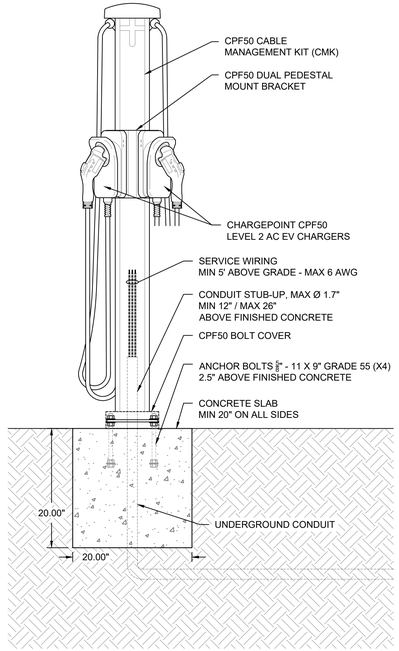
MOUNTING TYPE	PORT QUANTITY	PORT TYPE	CABLE LENGTH	CABLE MANAGEMENT
PEDESTAL	SINGLE	NACS	18 FT	YES
WALL	DUAL	J1772	23 FT	NO

QUOTATION/PRICING REQUESTS:
CONTRACTORS TO CONTACT ELECTRICAL DISTRIBUTORS.

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

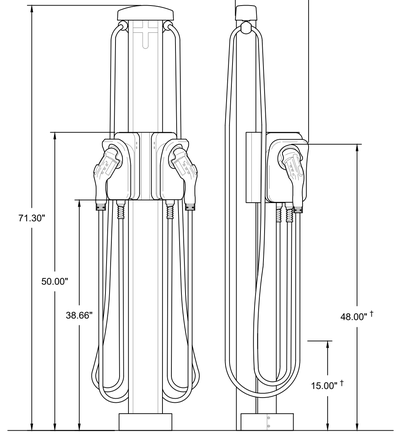
OR VISIT CHARGEPOINT'S HOMEPAGE AT HTTPS://WWW.CHARGEPOINT.COM/#CHPT

TECHNICAL DRAWINGS



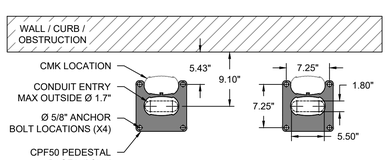
APPROXIMATE STATION WEIGHT
CPF50-L18-PEDMNT-CMK6-DUAL-GW-USA: 96 lb (~44 kg)

① **PEDESTAL MOUNT DETAIL - CONCRETE MOUNTING SECTION**
SCALE: 1" = 1'0"



† 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.

② **PEDESTAL MOUNT ELEVATIONS**
SCALE: 1" = 1'0"



③ **PEDESTAL MOUNTING HOLE PATTERN**
SCALE: 1" = 1'0"

SOFTWARE & SERVICES

CHARGEPOINT CLOUD PLANS

ALL CPF50 STATIONS REQUIRE AN ACTIVE CHARGEPOINT CLOUD PLAN. A POWER, COMMUNITY OR ESSENTIAL CLOUD PLAN IS REQUIRED PER CHARGING PORT.

ADDITIONAL SOFTWARE OPTIONS AVAILABLE FOR FLEETS. CONTACT YOUR CHARGEPOINT REPRESENTATIVE FOR MORE INFORMATION.

ESSENTIAL PLAN
CPCLD-ESSENTIAL
RECOMMENDED FOR MULTIFAMILY PROPERTIES (OR SIMILAR) WITH ACCESS-CONTROLLED OR SEMI-PUBLIC LOTS

REQUIRES PAID CHARGING
NO UP FRONT COSTS, NO TERM LENGTH

POWER PLAN
CPCLD-POWER-n*
RECOMMENDED FOR ACCESS-CONTROLLED LOTS (E.G. ELECTRIFIED FLEETS, AUTO DEALERSHIPS, ETC.). PAID CHARGING NOT SUPPORTED.

COMMUNITY PLAN
CPCLD-COMMUNITY-n*
RECOMMENDED FOR MULTIFAMILY PROPERTIES (OR SIMILAR) WITH SHARED CHARGING SPACES.

*REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)

FOR INFORMATION ON POWER, COMMUNITY, AND ESSENTIAL CLOUD PLAN FEATURES, SEE TABLE BELOW AND VISIT: https://www.chargepoint.com/download-file/cp-cloud-plans-comparison-matrix-commercial

CATEGORY	PLAN FEATURE	POWER	COMMUNITY	ESSENTIAL
GENERAL SUPPORT	4G LTE CELLULAR NETWORK CONNECTION	✓	✓	✓
	BASIC API ACCESS	✓	✓	✓
	24/7 SUPPORT FOR STATION HOSTS & DRIVERS	✓	✓	✓
STATION MANAGEMENT	STATION SOFTWARE UPDATES	✓	✓	✓
	REAL-TIME STATION STATUS	✓	✓	✓
	AGGREGATED REPORTING & ANALYTICS	✓	✓	✓
	USER MANAGEMENT & ADMINISTRATIVE TOOLS	✓	✓	✓
	VALET DASHBOARD	✓	✓	✓
	STATION MESSAGES		✓	✓
BASIC POWER MANAGEMENT	POWER SHARING AT CIRCUIT, PANEL, & SITE LEVELS	✓	✓	✓
	CABLE SHARING	✓	✓	✓
	FIXED POWER DERATING	✓	✓	✓
	HIERARCHICAL POWER SHARING	✓	✓	✓
	DELAYED CHARGING SCHEDULING	✓		
DRIVER MANAGEMENT	DRIVER MOBILE APP & WEB PORTAL		✓	✓
	ACCESS CONTROL		✓	
	PRICING CONTROL		✓	✓
	CONNECTIONS		✓	
	NOTIFY ME WHEN AVAILABLE		✓	✓
	SHOW STATIONS ON CHARGEPOINT NETWORK MAP			✓*
	EV CHARGING NETWORK ROAMING			✓
	TAP TO CHARGE		✓	✓

*STATIONS ON THE ESSENTIAL CLOUD PLAN WILL SHOW UP ON CHARGING MAP AS RESTRICTED ACCESS.

INSTALLATION & ACTIVATION

INSTALLATION — REQUIRED
INSTALLATION TO BE COMPLETED BY AN ENTITY HOLDING THE CPF50 INSTALLATION MICROCREDENTIAL* FROM CHARGEPOINT UNIVERSITY.

ACTIVATION — REQUIRED
- ORDER CODE: CPF-ACTIVATION
- REQUIRED FOR ALL CPF50 STATIONS.
- INCLUDES ACTIVATION OF STATIONS BY A CHARGEPOINT REMOTE SERVICES TECHNICIAN.

* CHARGEPOINT RECOMMENDS SELECTING A CHARGEPOINT AC CERTIFIED INSTALLER.

WARRANTIES

CHARGEPOINT ASSURE® — RECOMMENDED
- ORDER CODE: CPF-ASSURE-n* *
- INCLUDES PARTS COSTS AND LABOR COSTS FOR ISSUES COVERED UNDER WARRANTY
- INCLUDES LABOR AND TRAVEL COVERAGE TO REPAIR ISSUES NOT COVERED UNDER WARRANTY, SUCH AS VANDALISM AND ACCIDENTS.
- INCLUDES COORDINATION FOR SERVICE VISITS BY A CHARGEPOINT TECHNICAL SUPPORT ENGINEER.
- **NOT AVAILABLE WITH ESSENTIAL CLOUD PLAN.**
- VISIT https://www.chargepoint.com/download-file/chargepoint-assure-brochure-us FOR MORE INFORMATION

*REPLACE "n" WITH DESIRED YEARS OF SERVICE (1, 2, 3, 4, OR 5 YEARS)

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

CHARGEPOINT POWER MANAGEMENT SOFTWARE

HIERARCHICAL POWER MANAGEMENT
- ENABLES OVERSUBSCRIPTION OF TRANSFORMERS, PANELS, AND / OR CIRCUITS BASED ON PROJECT NEEDS.
- ELIMINATES NEED FOR EXTERNAL LOAD MANAGEMENT DEVICES IN UPSTREAM ELECTRICAL INFRASTRUCTURE.
- MEETS STANDARDS SET BY NEC 625.42 FOR LOAD MANAGEMENT

CAN INCLUDE ANY OR ALL OF THE FOLLOWING:

SITE LEVEL POWER MANAGEMENT | PANEL LEVEL POWER MANAGEMENT | CIRCUIT LEVEL POWER MANAGEMENT

RECOMMENDED EQUIPMENT SIZES

RECOMMENDED SITE TRANSFORMER SIZING
WITH SITE-LEVEL POWER MANAGEMENT

TRANSFORMER RATING (kVA)	MAX QTY OF PORTS
30	9
45	13
75	22
112.5	33
150	45
225	67
300	90
500	150
750	225

RECOMMENDED MAIN BREAKER SIZING
WITH PANEL-LEVEL POWER MANAGEMENT

PANEL VOLTAGE:	208 Y / 120 V
BRANCH CIRCUIT BREAKER (PER PORT):	2-POLE, 60A

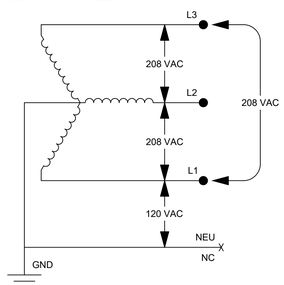
MCB RATING (A)	MAX QTY OF PORTS	MAX AMPS PER PORT	MIN AMPS PER PORT
125	10	48 A	16 A
200	17		
225	19		
400	34		
600	51		
800	68		

TRANSFORMER AND BREAKER SIZES SHOWN IN ABOVE TABLES ARE RECOMMENDATIONS. AN E.E. AND/OR E.C. TO VERIFY ELECTRICAL SPECIFICATIONS MEET CODE REQUIREMENTS.
RECOMMENDATIONS IN ABOVE TABLES MAINTAIN A MINIMUM OUTPUT OF > 3.3 kW PER PORT @ 208 V~.

WIRING DIAGRAMS

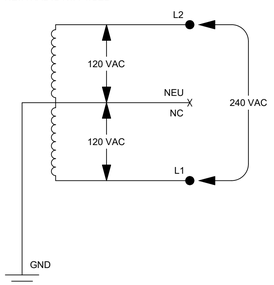
120/208 VAC, 3ϕ WYE BONDED NEUTRAL

STATION MAY BE CONNECTED TO ANY TWO LINES
NEUTRAL IS NOT USED

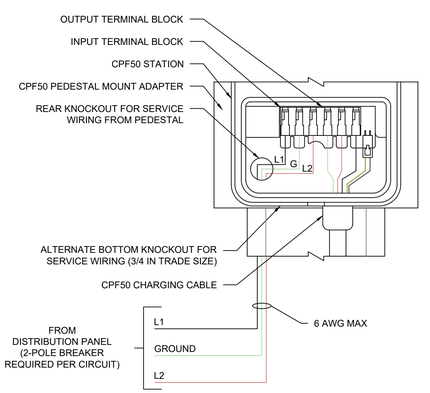


120/240 VAC, 1ϕ BONDED NEUTRAL

STATION IS CONNECTED TO L1 & L2
NEUTRAL IS NOT USED



SUPPORTED ELECTRICAL SYSTEMS



CPF50 WIRING DIAGRAM (N.T.S.)

GLOBAL HEADQUARTERS
240 EAST HACIENDA AVENUE
CAMPBELL, CA 95008
TEL: +1 (408) 841-4500

CONCEPT DRAWING NOT FOR CONSTRUCTION

DRAWING TITLE:
CHARGEPOINT CPF50 EVSE DETAIL

DUAL PEDESTAL MOUNT, J1772 PORT, 18' CABLE, WITH CABLE MANAGEMENT KIT (CMK)

DOCUMENT #:	15105003c
DATE:	08.04.25
DRAWN BY:	CMT
SCALE:	N.T.S.

SHEET:

EV501

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