

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

PRODUCT OPTIONS

MODEL NUMBER: CPF50-L18-WALLMNT-CMK6-GW-USA

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

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>

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](https://www.chargepoint.com/#CHPT)



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.

POWER PLAN

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

*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	✓	✓	✓
BASIC POWER MANAGEMENT	STATION MESSAGES		✓	✓
	POWER SHARING AT CIRCUIT, PANEL, & SITE LEVELS	✓	✓	✓
	CABLE SHARING	✓	✓	✓
	FIXED POWER DERATING	✓	✓	✓
	HIERARCHICAL POWER SHARING	✓	✓	✓
DRIVER MANAGEMENT	DELAYED CHARGING SCHEDULING	✓		
	DRIVER MOBILE APP & WEB PORTAL		✓	✓
	ACCESS CONTROL		✓	✓
	PRICING CONTROL		✓	✓
	CONNECTIONS		✓	✓
DRIVER MANAGEMENT	NOTIFY ME WHEN AVAILABLE		✓	✓
	SHOW STATIONS ON CHARGEPOINT NETWORK MAP			✓*
	EV CHARGING NETWORK ROAMING			✓
	TAP TO CHARGE		✓	✓
	TAP TO CHARGE		✓	✓

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

ESSENTIAL PLAN

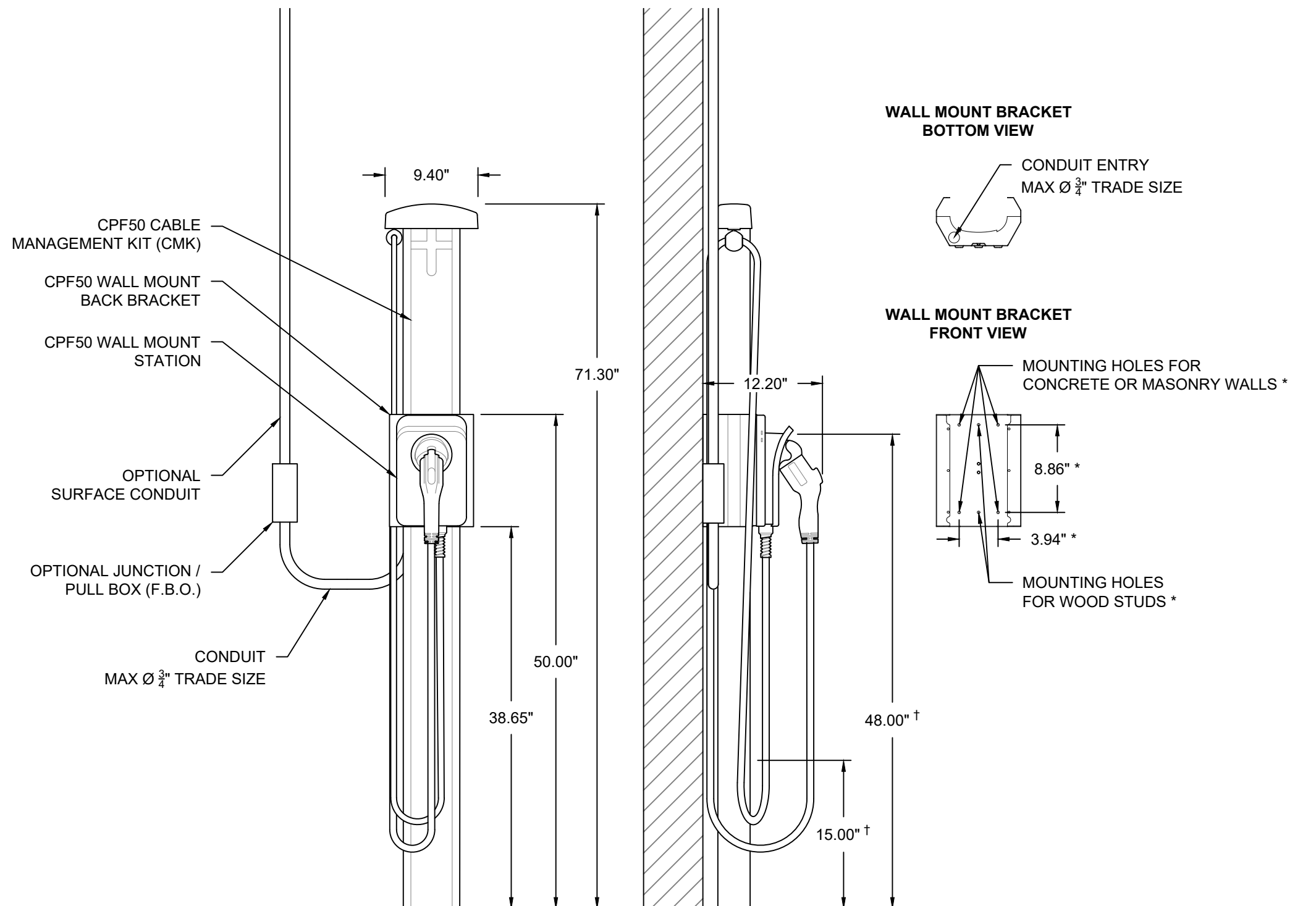
CPCLD-ESSENTIAL
RECOMMENDED FOR MULTIFAMILY PROPERTIES (OR SIMILAR) WITH ACCESS-CONTROLLED OR SEMI-PUBLIC LOTS

REQUIRES PAID CHARGING
NO UP FRONT COSTS, NO TERM LENGTH

COMMUNITY PLAN

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

TECHNICAL DRAWINGS



* MOUNTING HOLE LOCATIONS PROVIDED FOR REFERENCE ONLY. FOLLOW INSTRUCTIONS IN CPF50 INSTALLATION GUIDE USING ACTUAL WALL MOUNT BACK BRACKET DURING INSTALLATION OF WALL MOUNTED CPF50 CHARGING STATIONS.

† 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.

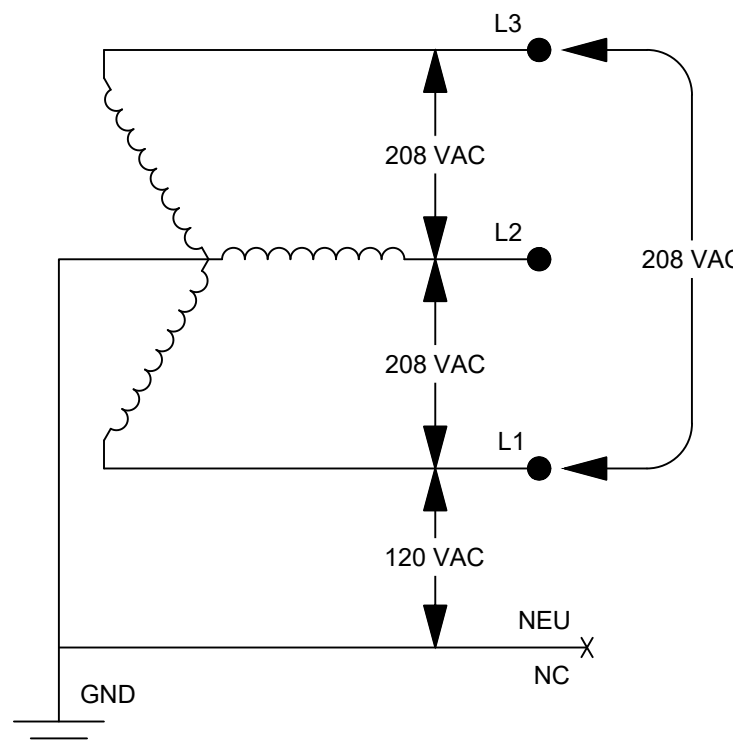
APPROXIMATE STATION WEIGHT
CPF50-L18-WALLMNT-CMK6-GW-USA: 48 lb (~22 kg)

1 WALL MOUNT - MOUNTING DIMENSIONS & ELEVATIONS
SCALE: 1" = 10"

WIRING DIAGRAMS

120/208 VAC, 3Φ WYE BONDED NEUTRAL

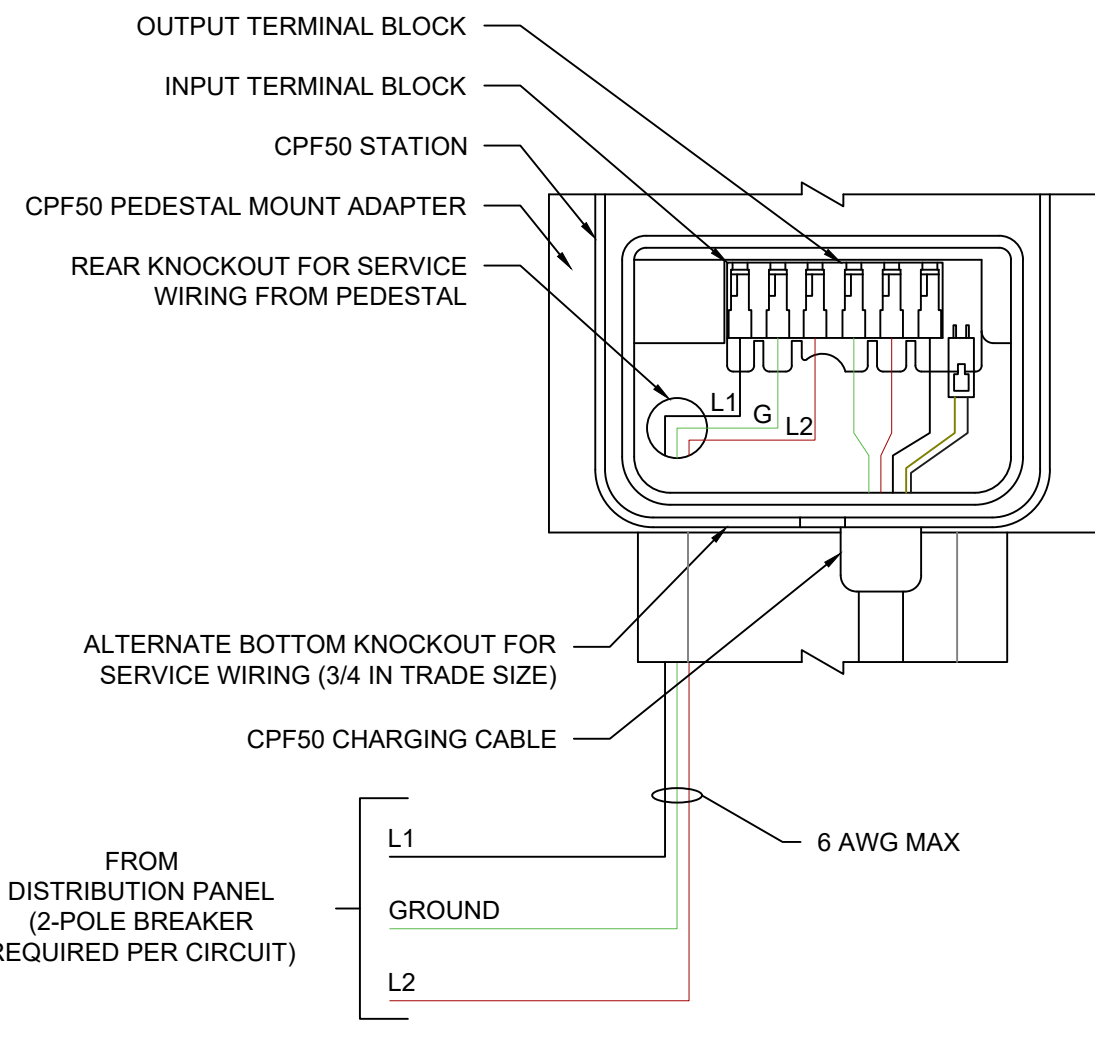
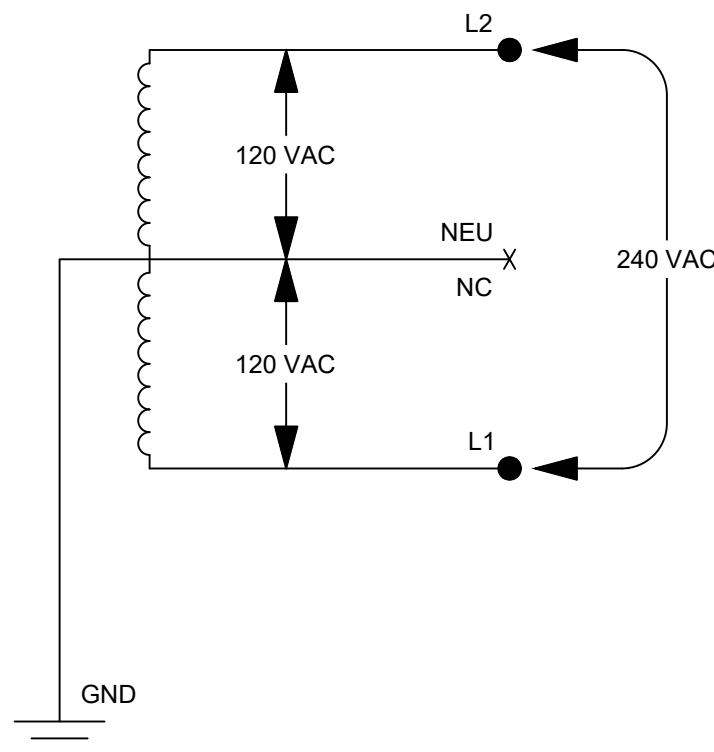
STATION MAY BE CONNECTED TO ANY TWO LINES
NEUTRAL IS NOT USED



SUPPORTED ELECTRICAL SYSTEMS

120/240 VAC, 1Φ BONDED NEUTRAL

STATION IS CONNECTED TO L1 & L2
NEUTRAL IS NOT USED



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INSTALLATION & ACTIVATION

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

* 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

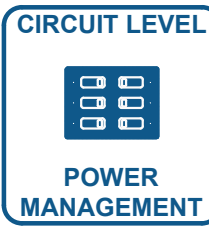
- 2 YEARS, PARTS ONLY; STATION MUST BE INSTALLED BY A CHARGEPOINT CERTIFIED TECHNICIAN.

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:



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~.

CONCEPT DRAWING
NOT FOR CONSTRUCTION

DRAWING TITLE:
**CHARGEPOINT
CPF50 EVSE DETAIL**

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

DOCUMENT #: 15105007c
DATE: 08.04.25
DRAWN BY: CMT
SCALE: N.T.S.

SHEET: