

# ChargePoint® CPF50 Level 2 Charging Stations for Fleet

Specifications and Ordering Information



## Ordering Information

The order codes below represent specific product configurations. Other product options are available. Please contact Eaton EV solution architect for information and order codes.

### Hardware

Description	Order Code	Eaton Catalog Numbers
USA Models Single Port, J1772, Wall, 5.4 m (18 ft) Cable	CPF50-L18-GW-USA-ETN	E0-000249
Single Port, J1772, Pedestal, 5.4 m (18 ft) Cable	CPF50-L18-PEDMNT-GW-USA-ETN	E0-000250
Single Port, J1772, Pedestal 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18-PEDMNT-CMK6-GW-USA-ETN	E0-000251
Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable	CPF50-L18-PEDMNT-DUAL-GW-USA-ETN	E0-000253
Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18 PEDMNT-CMK6-DUAL-GW-USA-ETN	E0-000252
Single Port, J1772, Wall, 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18-WALLMNT-CMK6-GW-USA-ETN	E0-000254
Single Port, J1772, Wall, 7.0 m (23 ft) Cable	CPF50-L23-GW-USA-ETN	E0-000255
Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-GW-USA-ETN	E0-000256
Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-GW-USA-ETN	E0-000257
Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-DUAL-GW-USA-ETN	E0-000259
Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-DUAL-GW-USA-ETN	E0-000258
Single Port, J1772, Wall, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-WALLMNT-CMK8-GW-USA-ETN	E0-000260
Single Port, NACS, Wall, 7.0 m (23 ft) Cable	CPF50-L23-GW-NACS-USA-ETN	E0-000261

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Description		Order Code	Eaton Catalog Numbers
	Single Port, NACS, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-GW-NACS-USA-ETN	E0-000263
	Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-Dual-GW-NACS-USA-ETN	E0-000264
	Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-Dual-GW-NACS-USA-ETN	E0-000262
Canada Models	CPF50, Canada, AC Station, 2x NACS, 50A, 1 Phase, 7m/23', Pedestal, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23-PEDMNT-Dual-GW-NACS-CAN-ETN	E0-000280
	CPF50, Canada, AC Station, 1x NACS, 50A, 1 Phase, 7m/23', Pedestal, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23-PEDMNT-GW-NACS-CAN-ETN	E0-000279
	CPF50, Canada, AC Station, 1x NACS, 50A, 1 Phase, 7m/23', Wall, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23-GW-NACS-CAN-ETN	E0-000277

Description	Order Code	Eaton Catalog Numbers
CPF50, Canada, AC Station, 2x NACS, 50A, 1 Phase, 7m/23', 2.4m/8' Cable Mgt, Pedestal, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23-PEDMNT-CMK8-Dual-GW-NACS-CAN-ETN	E0-000278
CPF50, Canada, AC Station, 2x Type 1, 50A, 1 Phase, 7m/23', Pedestal, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23-PEDMNT-Dual-GW-CAN-ETN	E0-000275
CPF50, Canada, AC Station, 1x Type 1, 50A, 1 Phase, 7m/23', 2.4m/8' Cable Mgt, Wall, RFID, Cellular/WIFI, Vodafone e-SIM, UL, 2 YR Parts Warranty, Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-L23 WALLMNT-CMK8-GW-CAN-ETN	E0-000276
CPF50, Canada, AC Station (head unit), No Cable, 50A, 1 Phase, RFID, Cellular/WiFi, Vodafone e-SIM, UL	CPF50-K-GW-LTE-NO-CABLE-CAN-ETN	E99 004529
Single Port, Pedestal 5.4 m (18 ft) Cable	CPF50-L18-PEDMNT-GW-CAN-ETN	E0-000266
Single Port, Pedestal 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18-PEDMNT-CMK6-GW-CAN-ETN	E0-000267
Dual Port, Pedestal, 5.4 m (18 ft) Cable	CPF50-L18-PEDMNT-DUAL-GW-CAN-ETN	E0-000269
Dual Port, Pedestal, 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18-PEDMNT-CMK6-DUAL-GW-CAN-ETN	E0-000268

Description		Order Code	Eaton Catalog Numbers
	Single Port, Wall, 5.4 m (18 ft) Cable with 6' Cable Management Kit	CPF50-L18-WALLMNT-CMK6-GW-CAN-ETN	E0-000270
	Single Port, J1772, Wall, 7.0 m (23 ft) Cable	CPF50-L23-GW-CAN-ETN	E0-000271
	Single Port, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-GW-CAN-ETN	E0-000272
	Single Port, Pedestal, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-GW-CAN-ETN	E0-000273
	Dual Port, Pedestal, 7.0 m (23 ft) Cable	CPF50-L23-PEDMNT-DUAL-GW-CAN-ETN	E0-000275
	Dual Port, Pedestal, 7.0 m (23 ft) Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-DUAL-GW-CAN-ETN	E0-000274
	CPF50-K-GW-LTE-L23-CAN. Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-K-GW-LTE-L23-CAN-ETN	E99-004525
	CPF50-K-GW-LTE-L18-CLAMP-CAN. Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-K-GW-LTE-L18-CLAMP-CAN-ETN	E99-004527
	CPF50-K-GW-LTE-L23-CLAMP-CAN. Defaults to Essential cloud plan (T&Cs apply – see (1) MSSA and (2) cloud plan data sheet includes supplemental T&Cs) at CAD \$190/yr, paid separately and in arrears, if an alternate cloud plan is not purchased.	CPF50-K-GW-LTE-L23-CLAMP-CAN-ETN	E99-004528
Replacement Cable	5.4 m (18 ft), 50 A, J1772, Charging Cable	CPFx50CABLE-T1-50A-L18-F	E99-004604

Description		Order Code	Eaton Catalog Numbers
	5.4 m (18 ft). 50 A, J1772, Charging Cable, CMK version	CPF50CABLE-T1-50A-L18-CMK-F	E99-004605
	7.0 m (23 ft), 50 A, J1772, Charging Cable	CPF50CABLE-T1-50A-L23-CMK-F	E99-004607
	7.0 m (23 ft), 50 A, J1772, Charging Cable, CMK version	CPXCABLE-T1-50A-L23-F	E99-004606
NACS Conversion Kits	NACS Conversion Kit for CPF50. 7.0 m (23 ft), 50 A, CMK version. Includes holster insert for NACS	CPFCABLE-50A-L23-CMK-NACS-KIT-ETN	E99-004615
	NACS Conversion Kit for CPF50. 5.5 m (18 ft), 50 A, CMK version. Includes holster insert for NACS	CPFCABLE-50A-L18-CMK-NACS-KIT-ETN	E99-004616

## Required Companion Products

Description	Order Code
ChargePoint Cloud Plan	Please contact Eaton EV solution architect.
Station Initial Activation	CPF-ACTIVE

## Recommended Companion Products for Fleet Applications

Description	Order Code	Eaton Catalog Numbers
ChargePoint Installation	CPF50-STATION-INSTALL	EX1676-00
ChargePoint Assure	CPF-ASSURE1	PN0050-01
	CPF-ASSURE2	PN0051-01
	CPF-ASSURE3	PN0052-01
	CPF-ASSURE4	PN0053-01
	CPF-ASSURE5	PN0143-01

## General Specifications

### Electrical Input

CPF50 supports flexible current settings up to 50 A to fit your needs.

Power Select allows CPF50 stations to be installed and software-configured for current input/output lower than the maximum 50 A rating depending on your electrical and charging requirements. CPF50 Power Select current input/output options include 16 A, 24 A, 32 A, 40 A, and 48 A.

Power Share allows two stations to share power from a single circuit dynamically across the stations, adjusting each station's power output depending on whether one or both are actively charging. Standard wiring uses an independent circuit for each station. Power Share can be used in combination with Power Select.

Electrical Input	One Station (AC Voltage 208 / 240 V AC)			Two Stations (AC Voltage 208 / 240 V AC)		
	Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker
Maximum 50A (Standard)	50 A	One 70 A branch circuit	70 A dual pole (non-GFCI)	50 A x 2	Two independent 70 A branch circuits	70 A dual pole (non GFCI) x 2
Maximum 50 A (Power Share)	N/A	N/A	N/A	50A	One 70 A branch circuit split to two	70 A dual pole (non GFCI)
Power Select 16 A – 48 A (Standard)	16 A – 48 A	One branch circuit rated 125% of input current (20 A – 60 A)	Dual pole (non-GFCI) rated 125% of input current (20 A-60 A)	16 A – 48 A x 2	Two independent branch circuits rated 125% of input current (20A – 60 A)	Dual pole (non-GFCI) rated 125% of input current x 2
Power Select 16 A – 48 A (Power Share)	N/A	N/A	N/A	16A – 48 A	One branch circuit rated 125% of input current (20A to 60 A) split to two	Dual pole (non-GFCI) rated 125% of input current (20 A-60 A)
Service Panel/Breaker GFCI	Do not provide external GFCI as it may conflict with internal GFCI (CCID)					
Wiring – Standard	3-wire (L1, L2, Earth) No neutral			3-wire (L1, L2, Earth) x 2 No neutral		
Wiring – Power Share	N/A			3-wire (L1, L2, Earth) split to 3-wire (L1, L2, Earth) x 2		
Station Power	2.5 W typical (standby), 4 W maximum (operation)			5 W typical (standby), 8 W maximum (operation)		
Line to Ground Voltage	120V +/- 10%					

## Electrical Output

Electrical Output	Single Port (AC Voltage 208 / 240V AC)	Dual Port (AC Voltage 208 / 240 V AC)
Maximum 50A (Standard)	12 kW (240V AC @ 50 A)	12 kW (240 V AC @ 50 A)
Maximum 50 A (Power Share)	N/A	12 kW (240 V AC @ 50A) x 1 or 6 kW (240 V AC @ 25 A) x 2
Power Select 16 A – 48 A (Standard)	3.8 kW – 11.5 kW (240 V AC @ 16 A – 48 A)	3.8 kW – 11.5 kW (240V AC @ 16 A – 48 A) x 2
Power Select 16 A – 48 A (Power Share)	N/A	3.8 kW – 11.5 kW (240 V AC @ 16A – 48 A) x 1 or 1.9 kW – 5.8 kW (240 V AC @ 8A – 24 A) x 2

## Functional Interfaces

Connector Types	SAE J1772™, NACS
Cable Length	5.4 m (18 ft), 7.0 m (23 ft)
Overhead Cable Management System	Optional
Pedestal Mount	Optional
RFID	ISO 15693 and ISO 14443  Digital RFID card in Apple or Google Wallet
ISO 15118 Protocol	Supported by the hardware
Network Communication Protocol	OCPP 1.6

## Indicators

WiFi LED	Yes
Fault Indicator per UL	Yes
Status LED	Yes

## Safety and Connectivity Features

Ground Fault Detection	20 mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772™ specifications
Power Measurement Accuracy	+/- 2% from 2% to full scale (50A)
Power Report/Store Interval	15 minutes, aligned to hour
Local Area Network	2.4/5 GHz Wi-Fi (802.11 a/b/g/n)
Wide Area Network	4G LTE or provided by the ChargePoint Gateway CPGWx if installed

## Safety and Operational Ratings

Station Enclosure Rating	Type 3R per UL 50E
Safety and Compliance	UL and C-UL listed; complies with UL2594, UL2231-1, UL 2231-2. NEC Article 625 compliant. For Canada CSA C22.2, No. 280, 281.1, 281.2, CED UL and C-UL listed per UL916 Energy Management Equipment Energy Star NTEP
Station Surge Protection	6 kV @ 3000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended
Short Circuit Current Rating	5 kA
EMC Compliance	FCC Part 15 Class B
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
Operating Humidity	Up to 95% @+50 °C (122 °F) non-condensing
Non-Operating Humidity	Up to 95% @+50°C (122°F) non-condensing

## Other Specifications

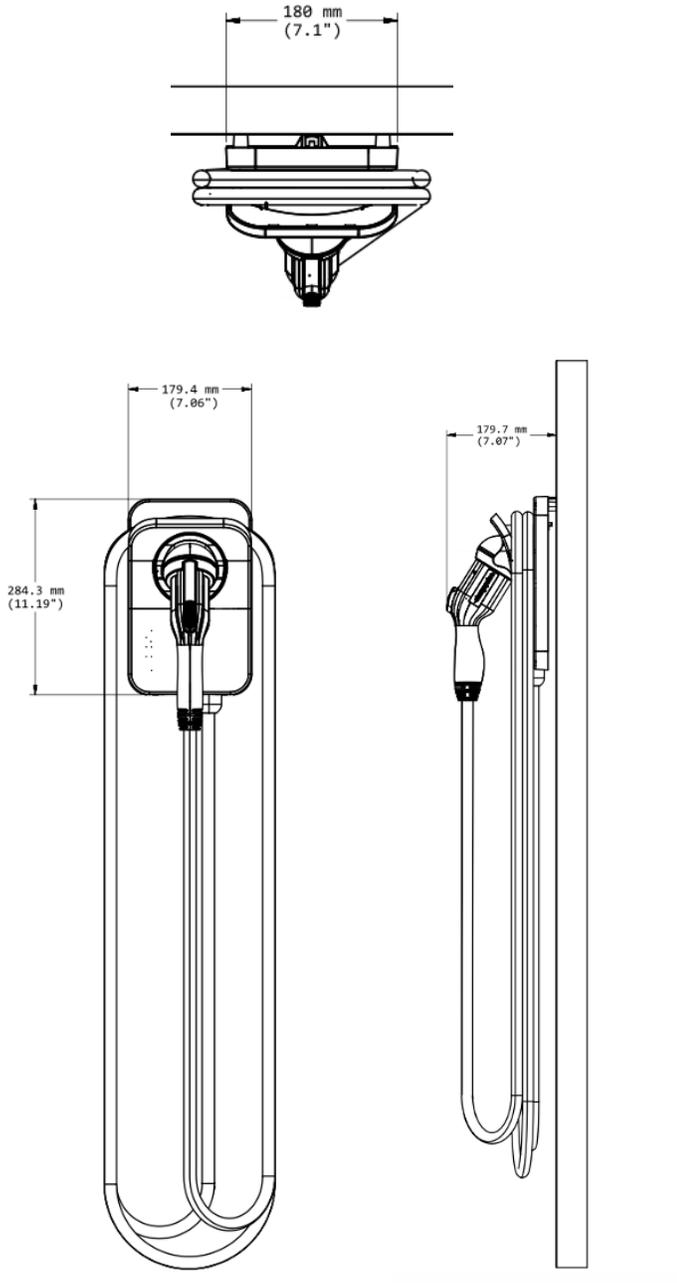
Weight	Wall Mount: 2.2 kg (4.9 lb)
Warranty	Limited 2-Year Parts Warranty

# Architectural Drawings

Note: Images are not to scale. Measurements appear in metric units (mm), followed by imperial equivalents (inches).

## Single Wall Mount

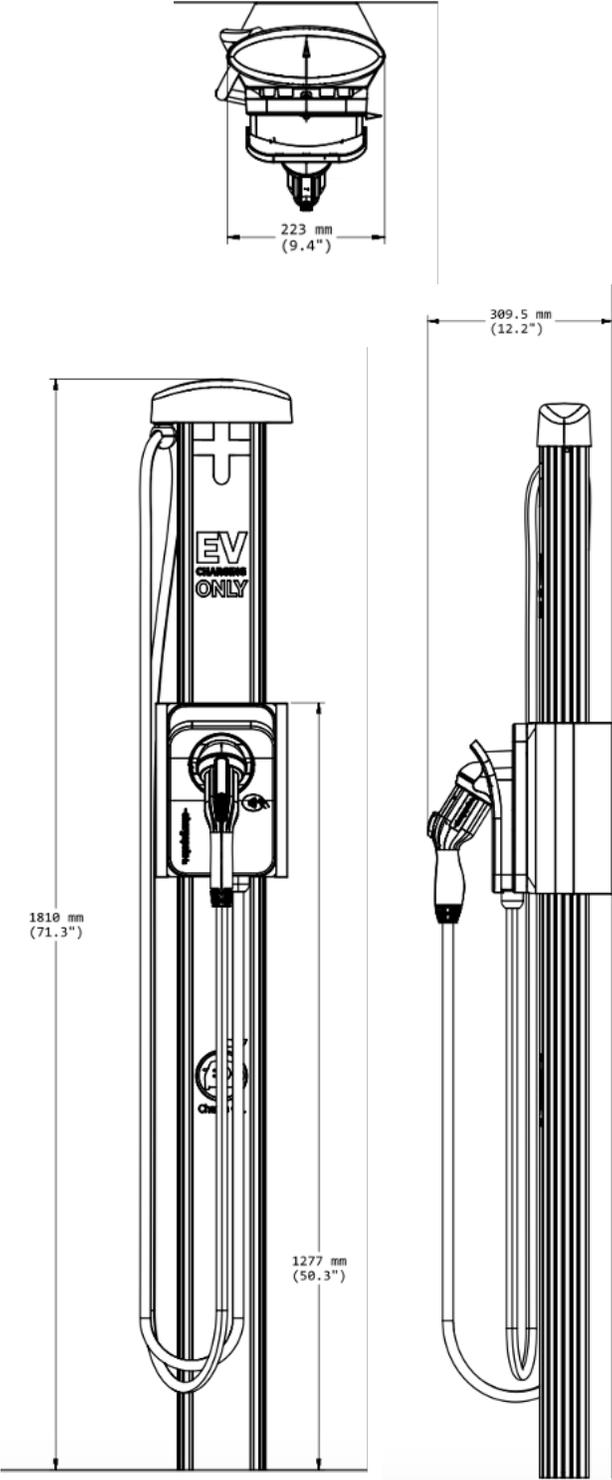
CPF50-L23-GW, CPF50-L18-GW 1}



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# Single Wall Mount with Cable Management Kit

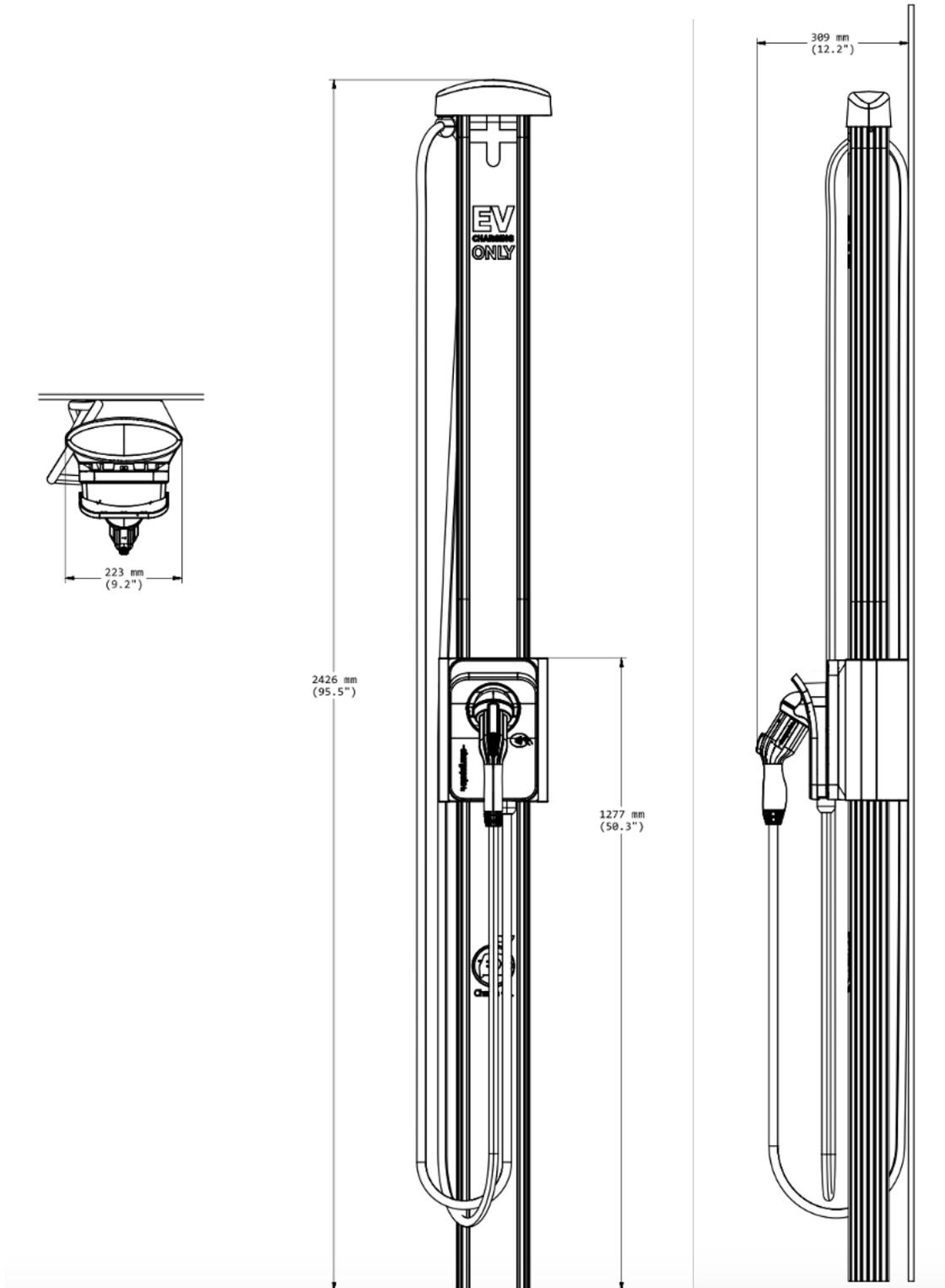
CPF50-L18-WALLMNT-CMK6-GW (6 ft)



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# Single Wall Mount with Cable Management Kit

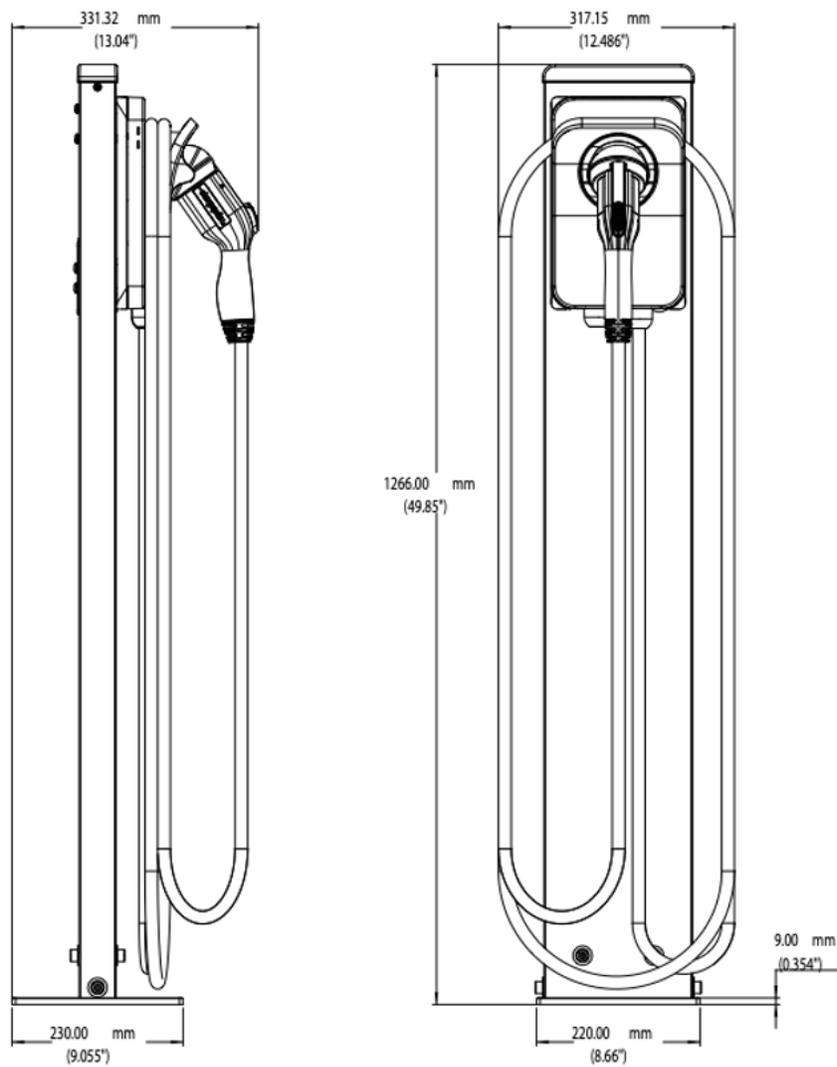
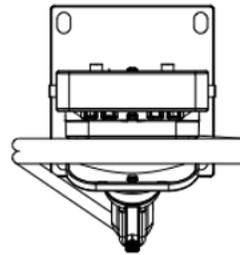
CPF50-L23-WALLMNT-CMK8-GW (8 ft)



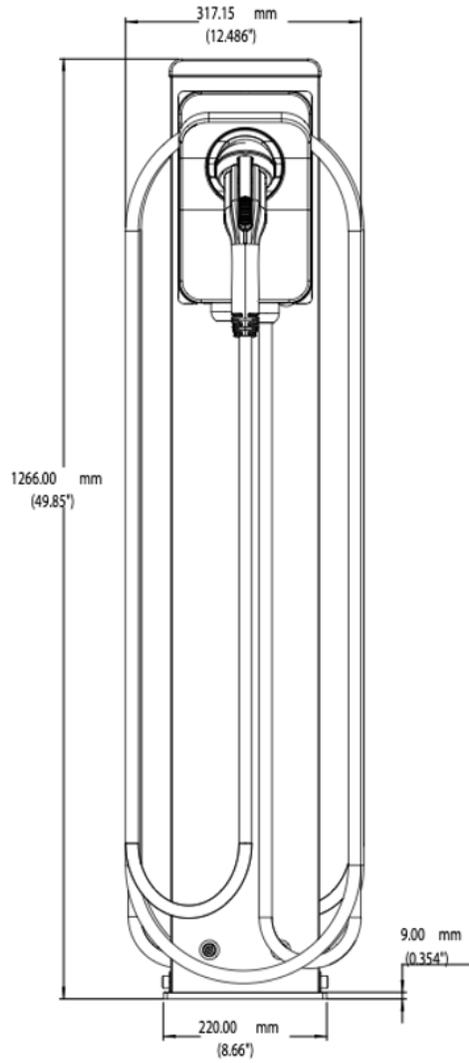
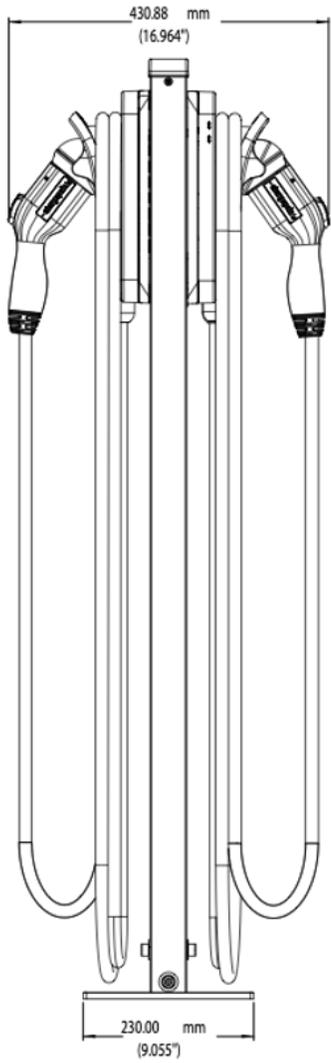
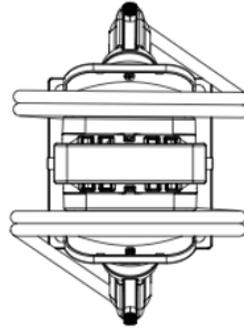
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## Single Sided or Dual Back-to-back Pedestal Mount

CPF50-L23-PEDMNT-GW, CPF50-L18-PEDMNT-GW



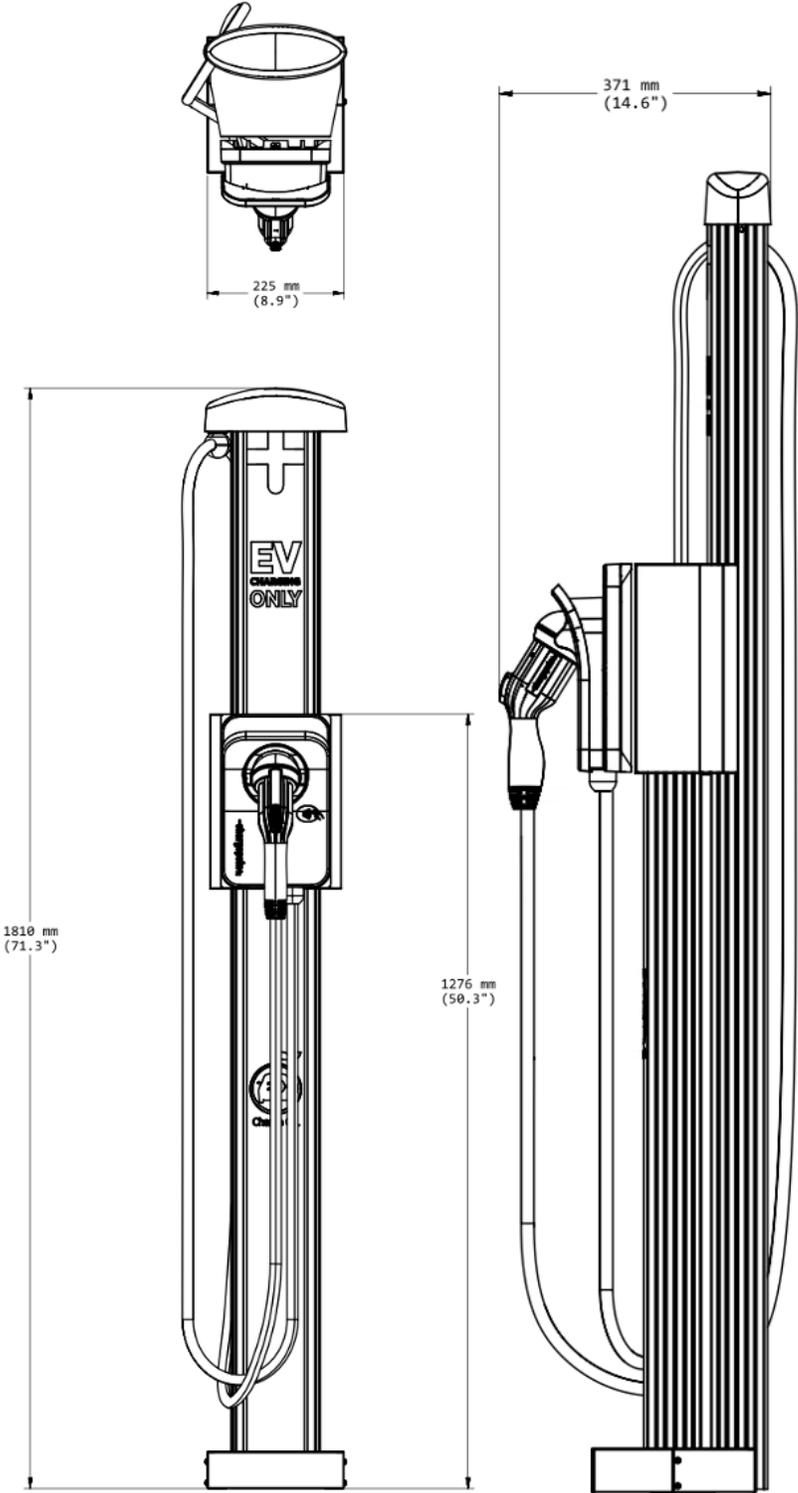
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# Single Pedestal Mount with Cable Management Kit

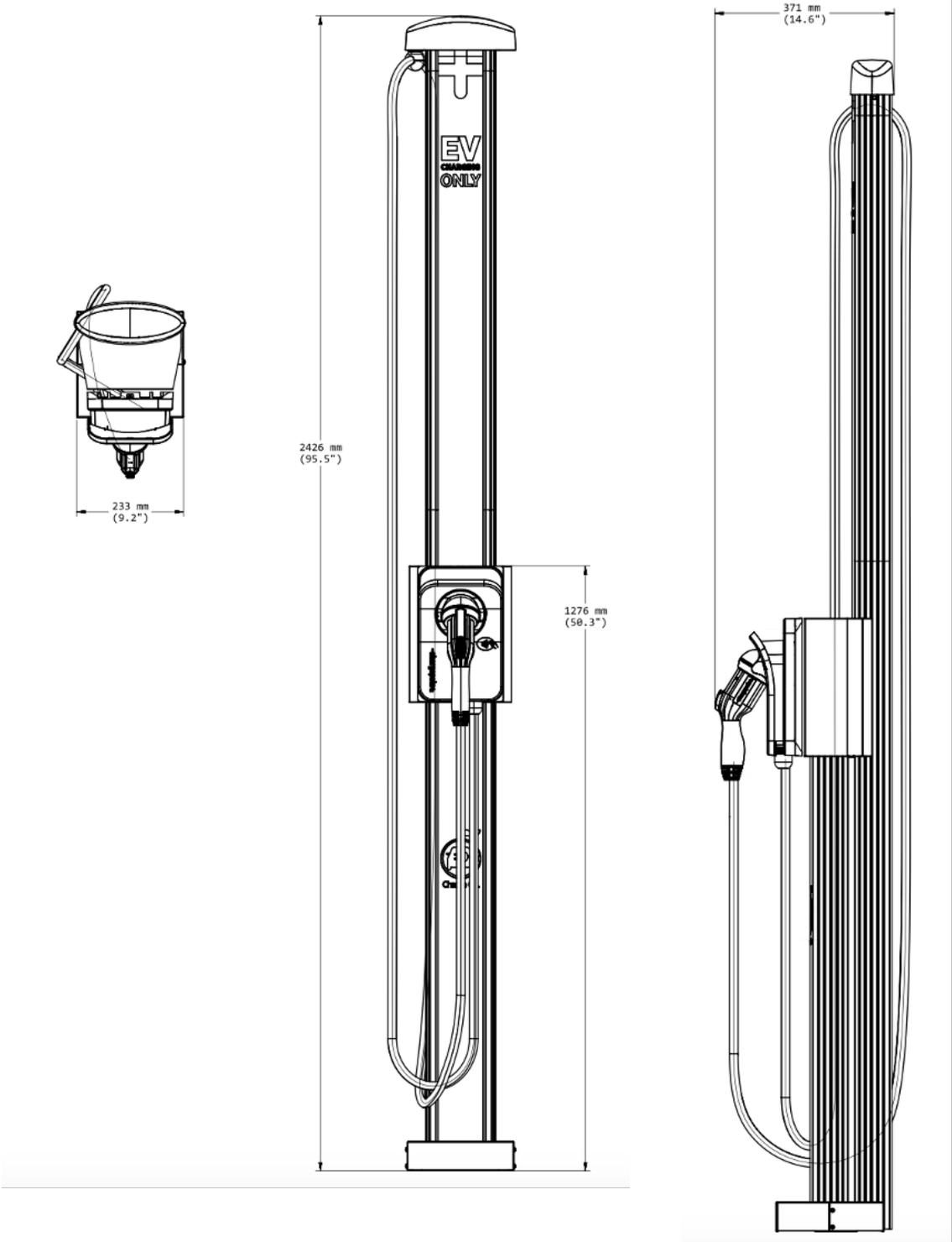
CPF50-L18-PEDMNT-CMK6-GW (6 ft)



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# Single Pedestal Mount with Cable Management Kit

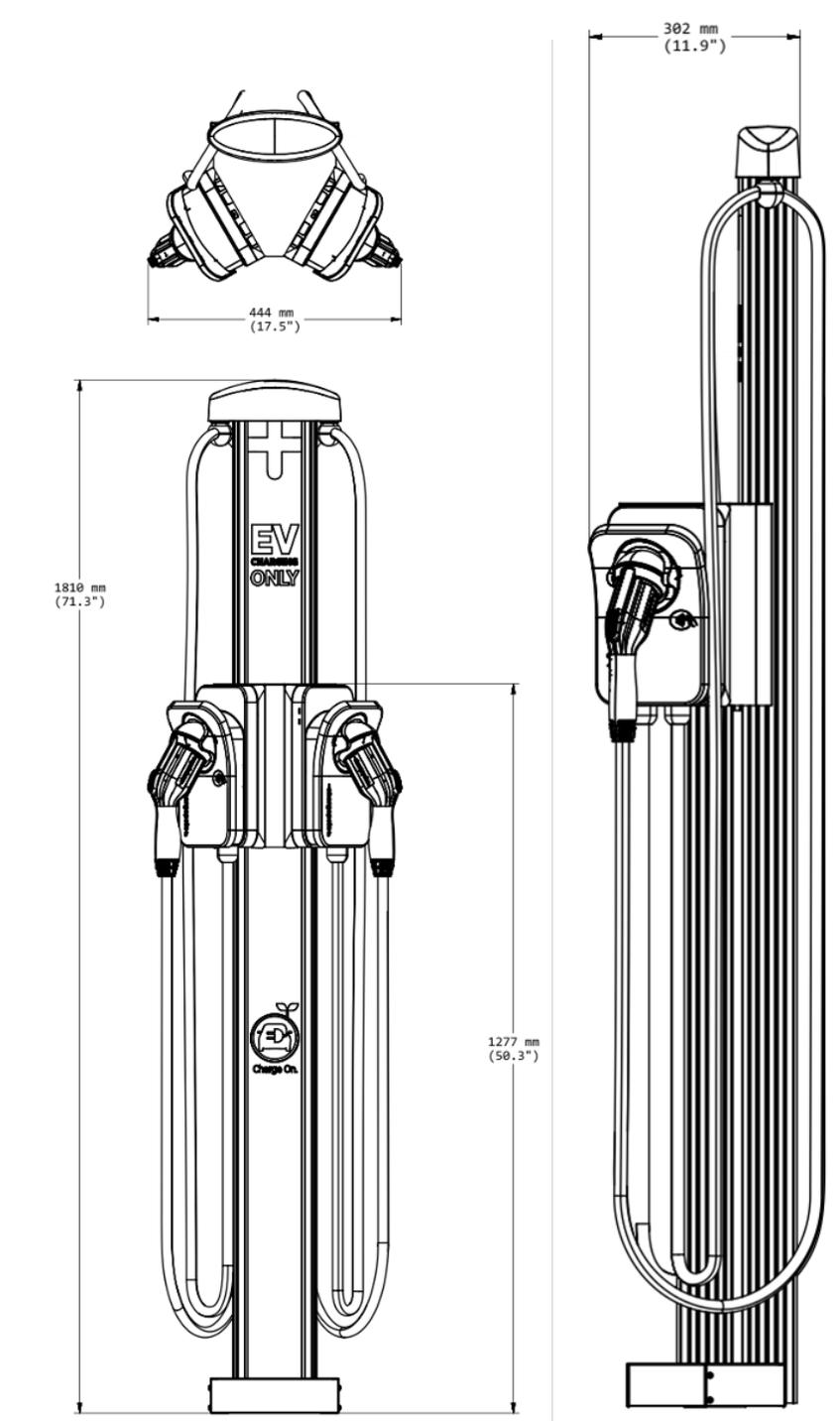
CPF50-L23-PEDMNT-CMK8-GW (8 ft)



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# Dual Pedestal Mount with Cable Management Kit

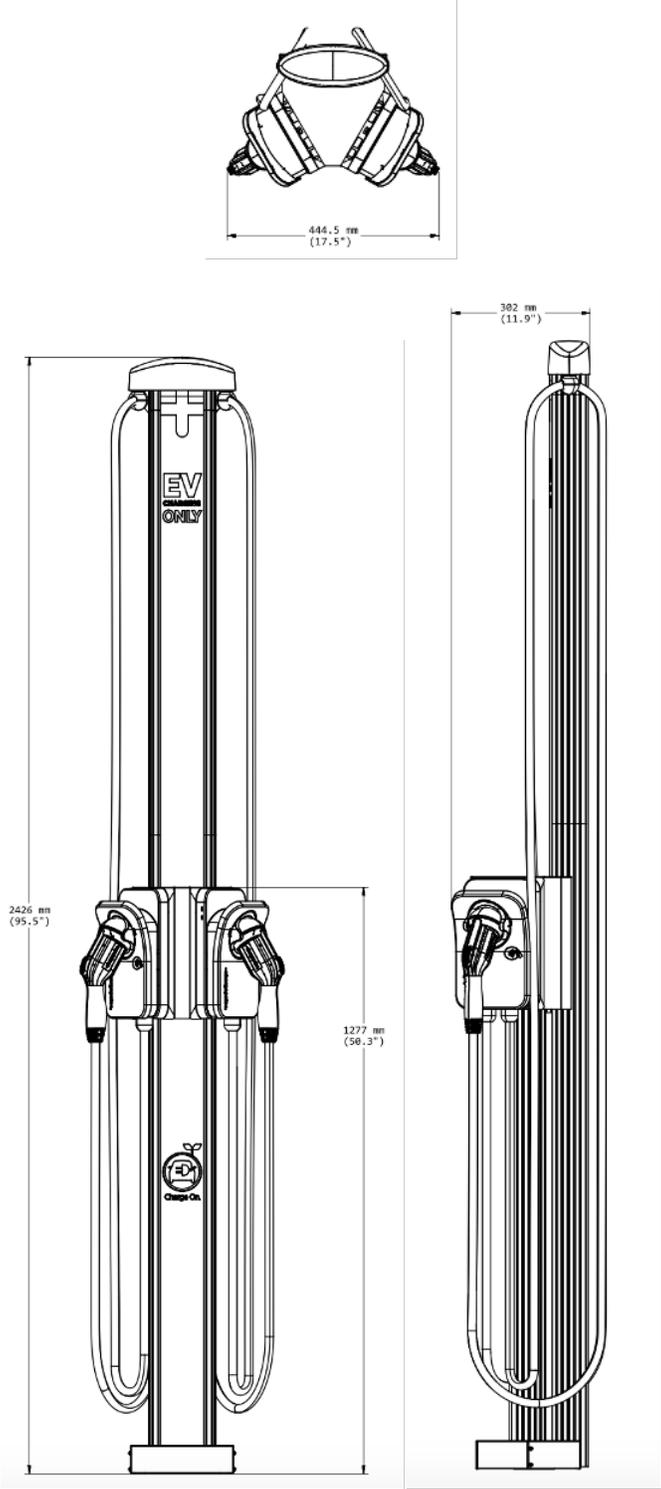
CPF50-L18-PEDMNT-CMK6-Dual-GW (6 ft)



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# Dual Pedestal Mount with Cable Management Kit

CPF50-L23-PEDMNT-CMK8-Dual-GW (8 ft)



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Printed in USA

Publication No. TD191041EN  
February 2026

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