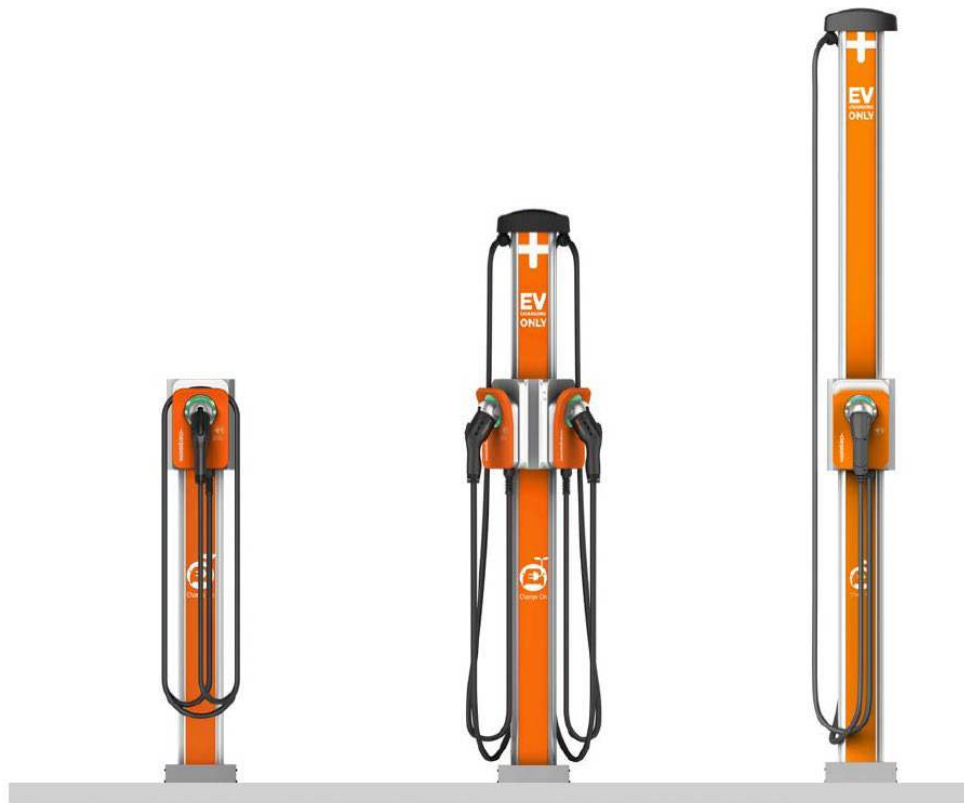


ChargePoint® CPF50 Level 2 Charging Stations for Multifamily

Specifications and Ordering Information



Ordering Information

The order codes below represent specific product configurations. Other product options are available. Please contact ChargePoint Sales for information and order codes

Hardware

| Description | | Order Code |
|-------------|--|-----------------------------------|
| USA Models | Single Port, J1772, Wall, 5.4 m (18 ft) Cable | CPF50-L18-GW-USA |
| | Single Port, J1772, Pedestal, 5.4 m (18 ft) Cable | CPF50-L18-PEDMNT-GW-USA |
| | Single Port, J1772, Pedestal 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-PEDMNT-CMK6-GW-USA |
| | Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable | CPF50-L18-PEDMNT-DUAL-GW-USA |
| | Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-PEDMNT-CMK6-DUAL-GW-USA |
| | Single Port, J1772, Wall, 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-WALLMNT-CMK6-GW-USA |
| | Single Port, J1772, Wall, 7.0 m (23 ft) Cable | CPF50-L23-GW-USA |
| | Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-GW-USA |
| | Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-GW-USA |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-DUAL-GW-USA |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-DUAL-GW-USA |
| | Single Port, J1772, Wall, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-WALLMNT-CMK8-GW-USA |
| | Single Port, NACS, Wall, 7.0 m (23 ft) Cable | CPF50-L23-GW-NACS-USA |
| | | |

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| | | |
|---------------|--|--|
| | Single Port, NACS, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-GW-NACS-USA |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-Dual-GW-NACS-USA |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-Dual-GW-NACS-USA |
| Canada Models | Single Port, J1772, Wall, 5.4 m (18 ft) Cable | CPF50-L18-GW-CAN |
| | Single Port, J1772, Pedestal 5.4 m (18 ft) Cable | CPF50-L18-PEDMNT-GW-CAN |
| | Single Port, J1772, Pedestal 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-PEDMNT-CMK6-GW-CAN |
| | Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable | CPF50-L18-PEDMNT-DUAL-GW-CAN |
| | Dual Port, J1772, Pedestal, 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-PEDMNT-CMK6-DUAL-GW-CAN |
| | Single Port, J1772, Wall, 5.4 m (18 ft) Cable with 6 ft Cable Management Kit | CPF50-L18-WALLMNT-CMK6-GW-CAN |
| | Single Port, J1772, Wall, 7.0 m (23 ft) Cable | CPF50-L23-GW-CAN |
| | Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-GW-CAN |
| | Single Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-GW-CAN |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-DUAL-GW-CAN |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-DUAL-GW-CAN |

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| | | |
|----------------------|---|--|
| | Single Port, J1772, Wall, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-WALLMNT-CMK8-GW-CAN |
| | Single Port, NACS, Wall, 7.0 m (23 ft) Cable | CPF50-L23-GW-NACS-CAN |
| | Single Port, NACS, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-GW-NACS-CAN |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable | CPF50-L23-PEDMNT-Dual-GW-NACS-CAN |
| | Dual Port, J1772, Pedestal, 7.0 m (23 ft) Cable with 8 ft Cable Management Kit | CPF50-L23-PEDMNT-CMK8-Dual-GW-NACS-CAN |
| Replacement Cable | 5.4 m (18 ft), 50A, J1772, Charging Cable | CPFCABLE-T1-50A-L18-F |
| | 5.4 m (18 ft), 50A, J1772, Charging Cable, CMK version | CPFCABLE-T1-50A-L18-CMK-F |
| | 7.0 m (23 ft), 50A, J1772, Charging Cable | CPxCABLE-T1-50A-L23-F |
| | 7.0 m (23 ft), 50 A, J1772, Charging Cable, CMK version | CPFCABLE-T1-50A-L23-CMK-F |
| 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 |
| | 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 |

Required Companion Products

| Description | Order Code |
|----------------------------|----------------------------------|
| ChargePoint Cloud Plan | Please contact ChargePoint sales |
| Station Initial Activation | CPF-ACTIVE |

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Recommended Companion Products for Multifamily Applications

| Description | Order Code |
|--------------------------|---------------------------|
| ChargePoint Installation | CPF-INSTALL-COMMISSIONING |
| ChargePoint Assure | CPF-ASSURE- <i>n</i> * |

*Substitute *n* for desired years of service (1, 2, 3, 4 or 5)

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) |

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| | | |
|----------------------------|---|--|
| 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 / 240 V AC) | Dual Port (AC Voltage 208 / 240 V AC) |
|--------------------------------------|--|--|
| Maximum 50A (Standard) | 12 kW (240 V AC @ 50 A) | 12 kW (240 V AC @ 50 A) |
| Maximum 50A (Power Share) | N/A | 12 kW (240 V AC @ 50A) x 1 or 6 kW (240 V AC @ 25A) x 2 |
| Power Select 16A - 48A (Standard) | 3.8 kW – 11.5 kW (240 V AC @ 16 A – 48 A) | 3.8 kW – 11.5 kW (240 V AC @ 16 A – 48 A) x 2 |
| Power Select 16A - 48A (Power Share) | N/A | 3.8 kW – 11.5 kW (240 V AC @ 16 A – 48 A) x 1 or 1.9 kW – 5.8 kW (240 V AC @ 8A - 24A) 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 |
| 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 @ 3000 A. 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 |

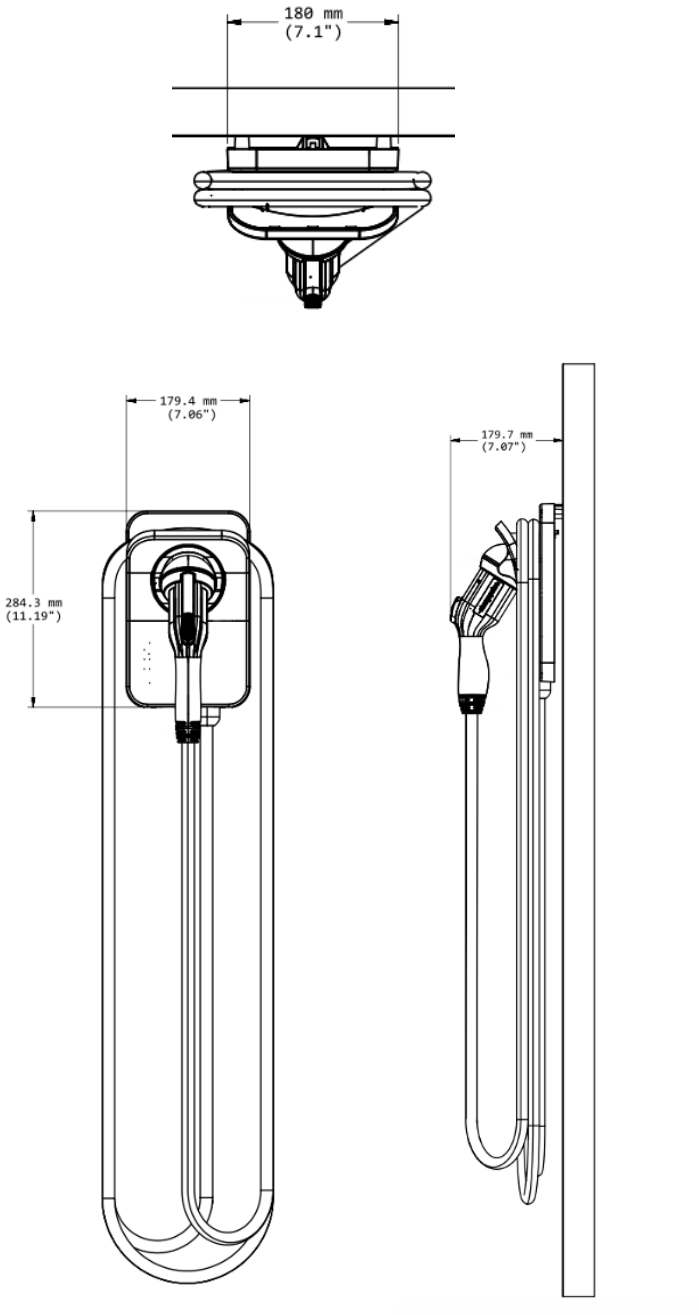
Architectural Drawings

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

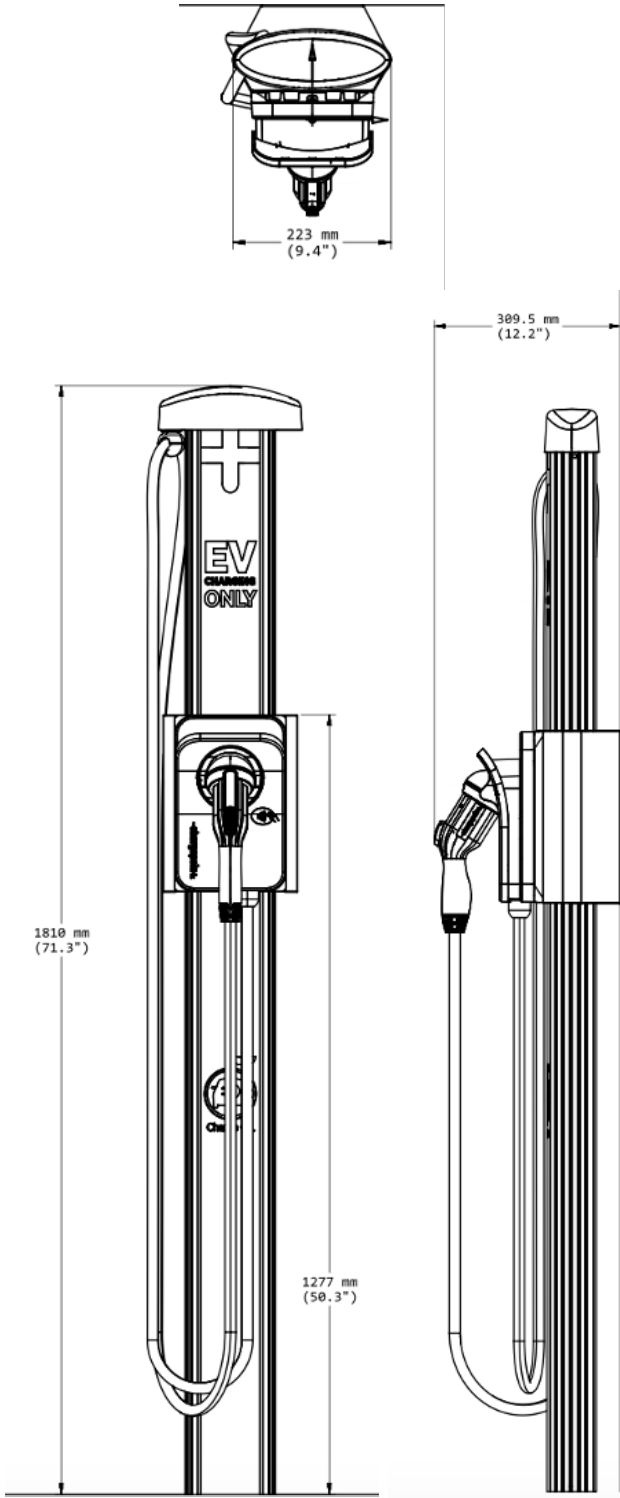
Single Wall Mount

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



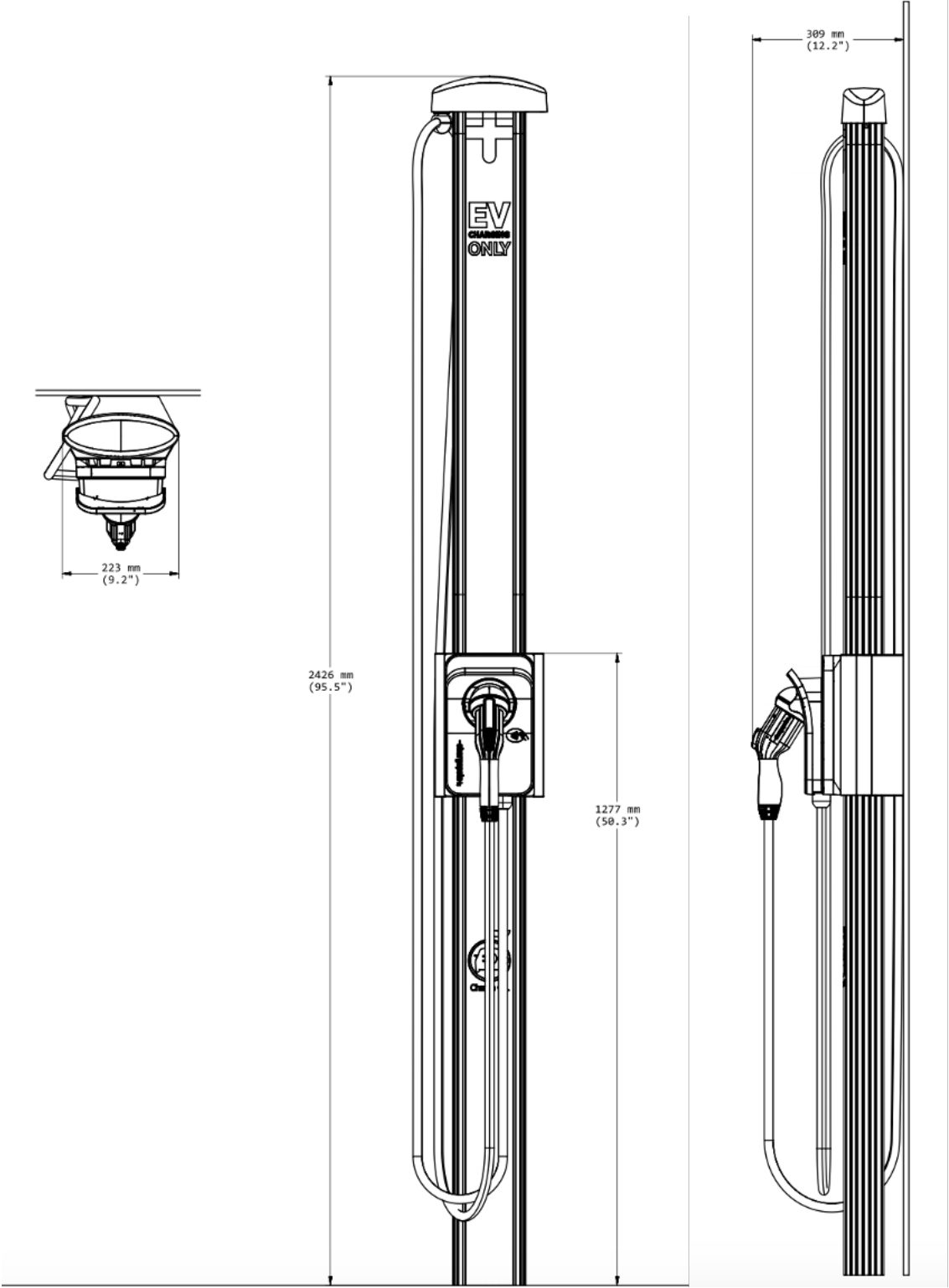
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Single Wall Mount with Cable Management Kit
CPF50-L18-WALLMNT-CMK6-GW (6 ft)



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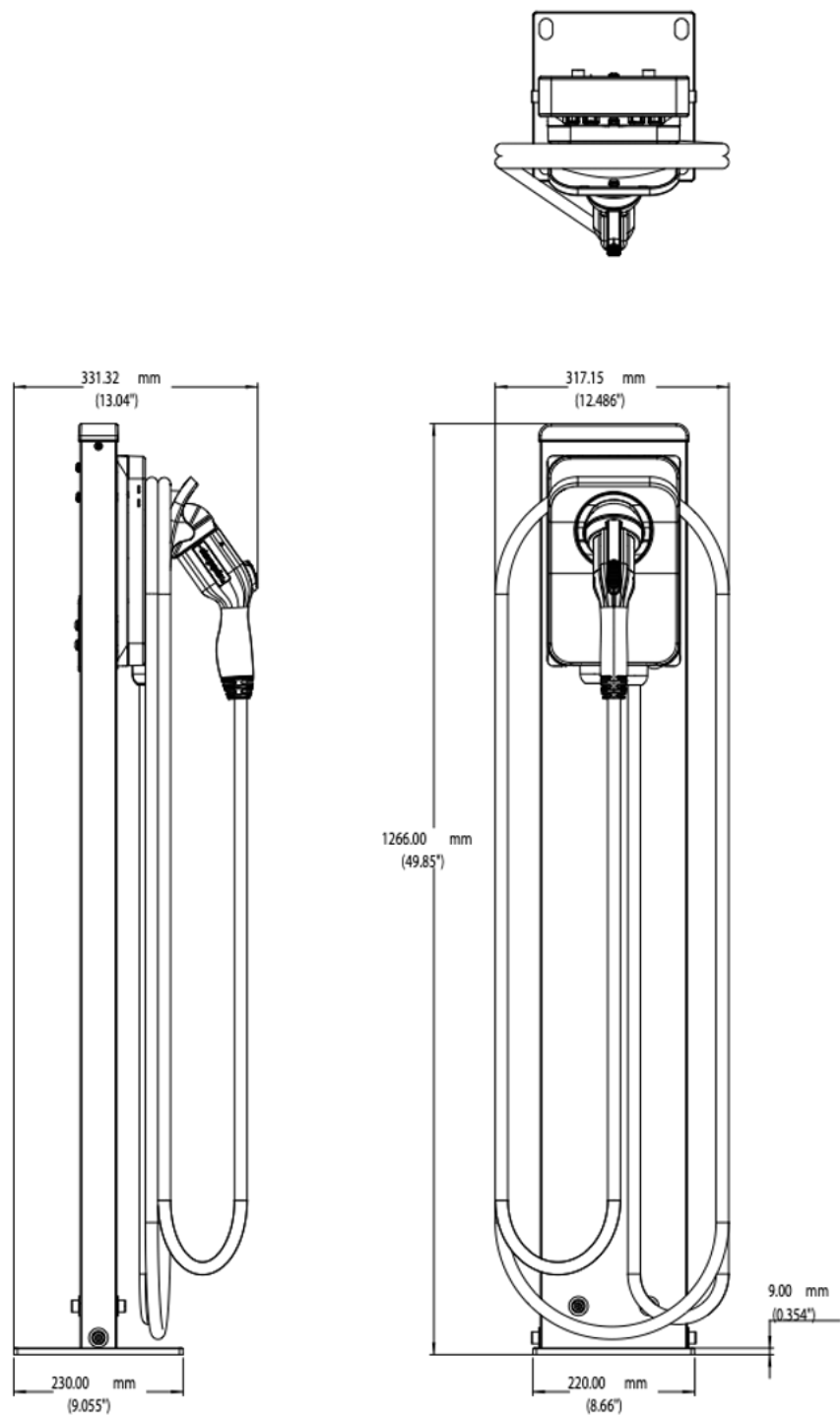
Single Wall Mount with Cable Management Kit
CPF50-L23-WALLMNT-CMK8-GW (8 ft)



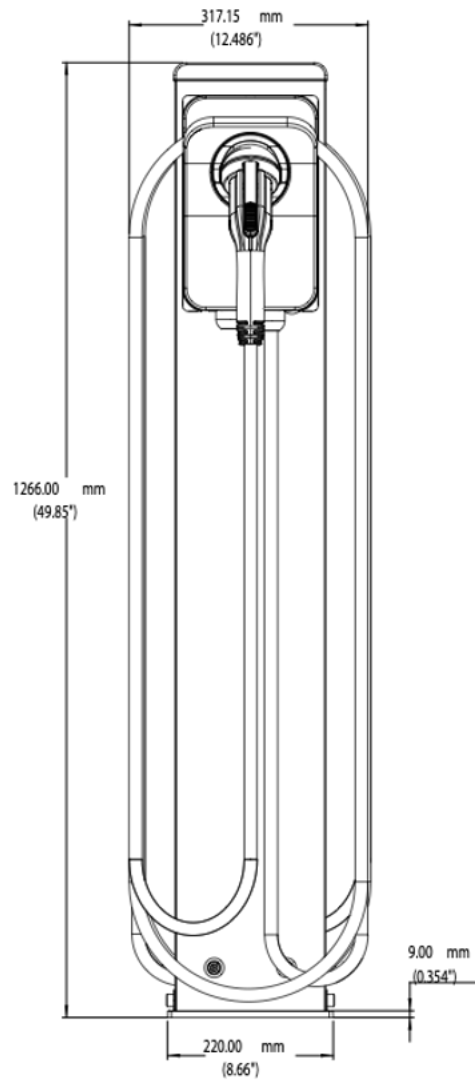
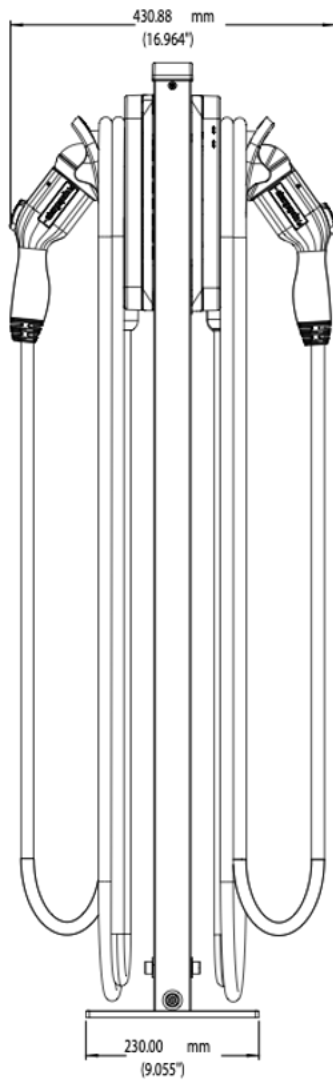
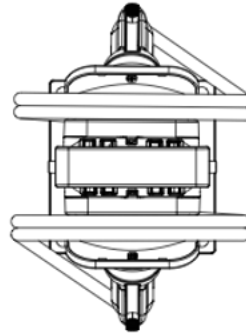
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Single Sided or Dual Back-to-back Pedestal Mount

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



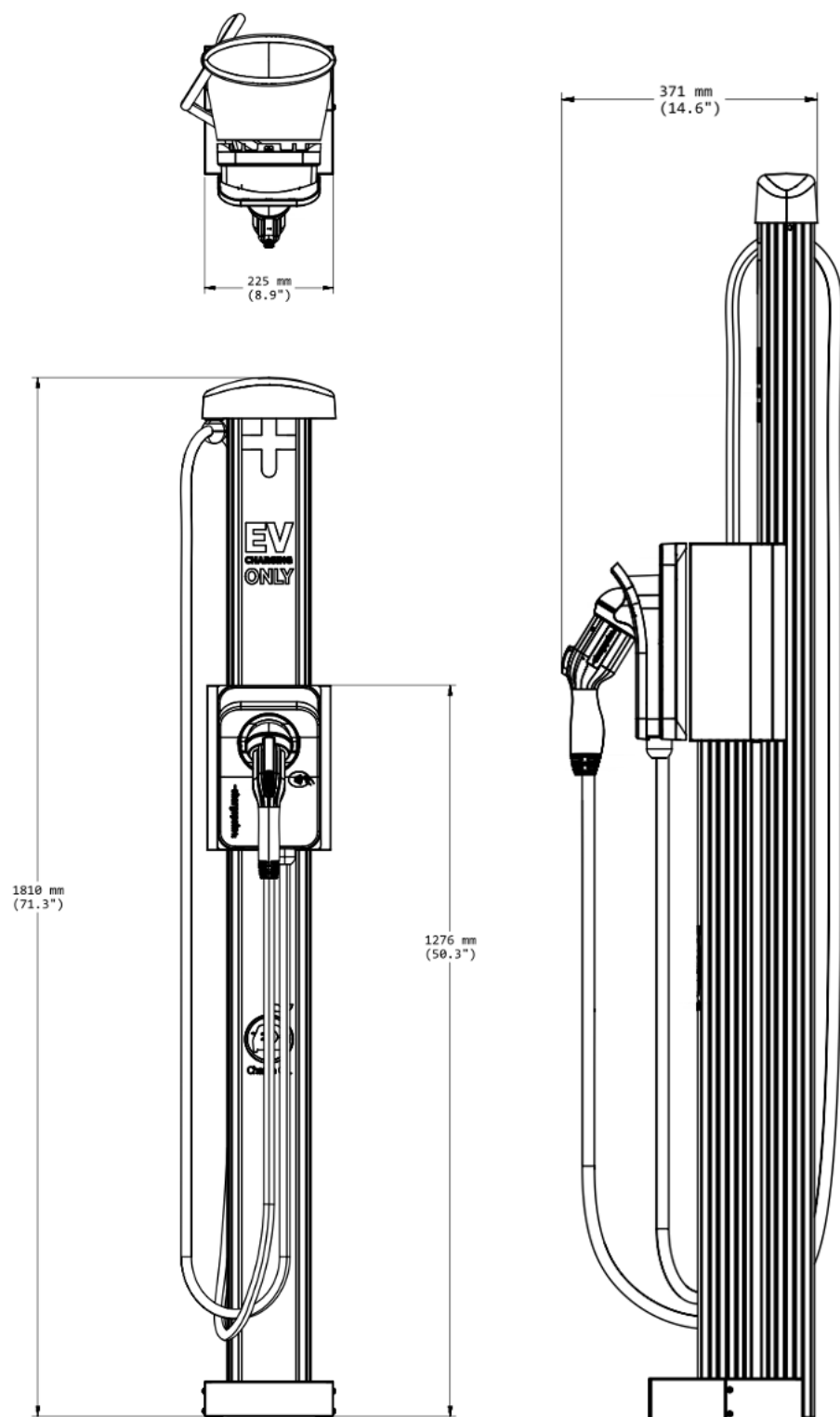
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Single Pedestal Mount with Cable Management Kit

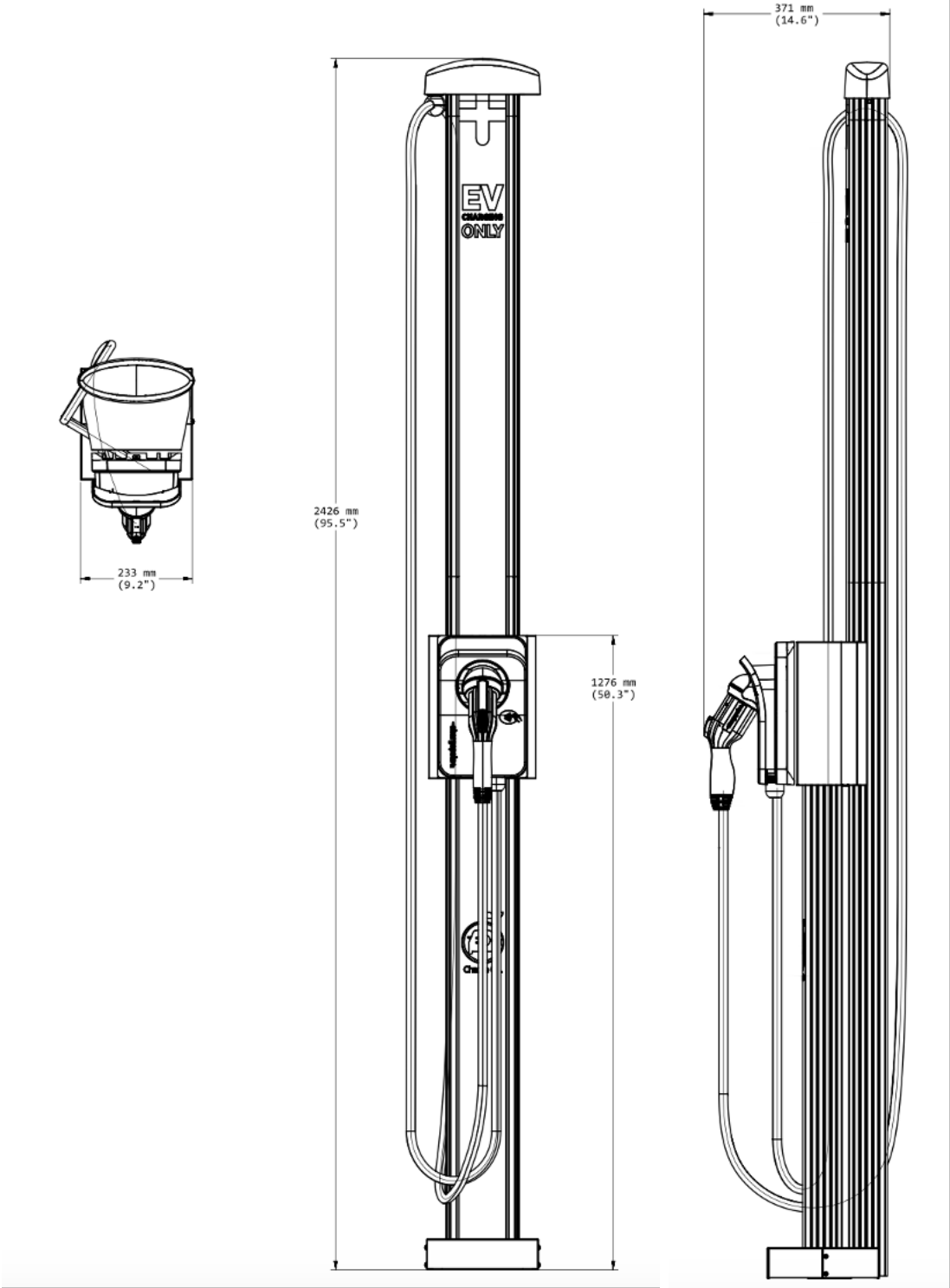
CPF50-L18-PEDMNT-CMK6-GW (6 ft)



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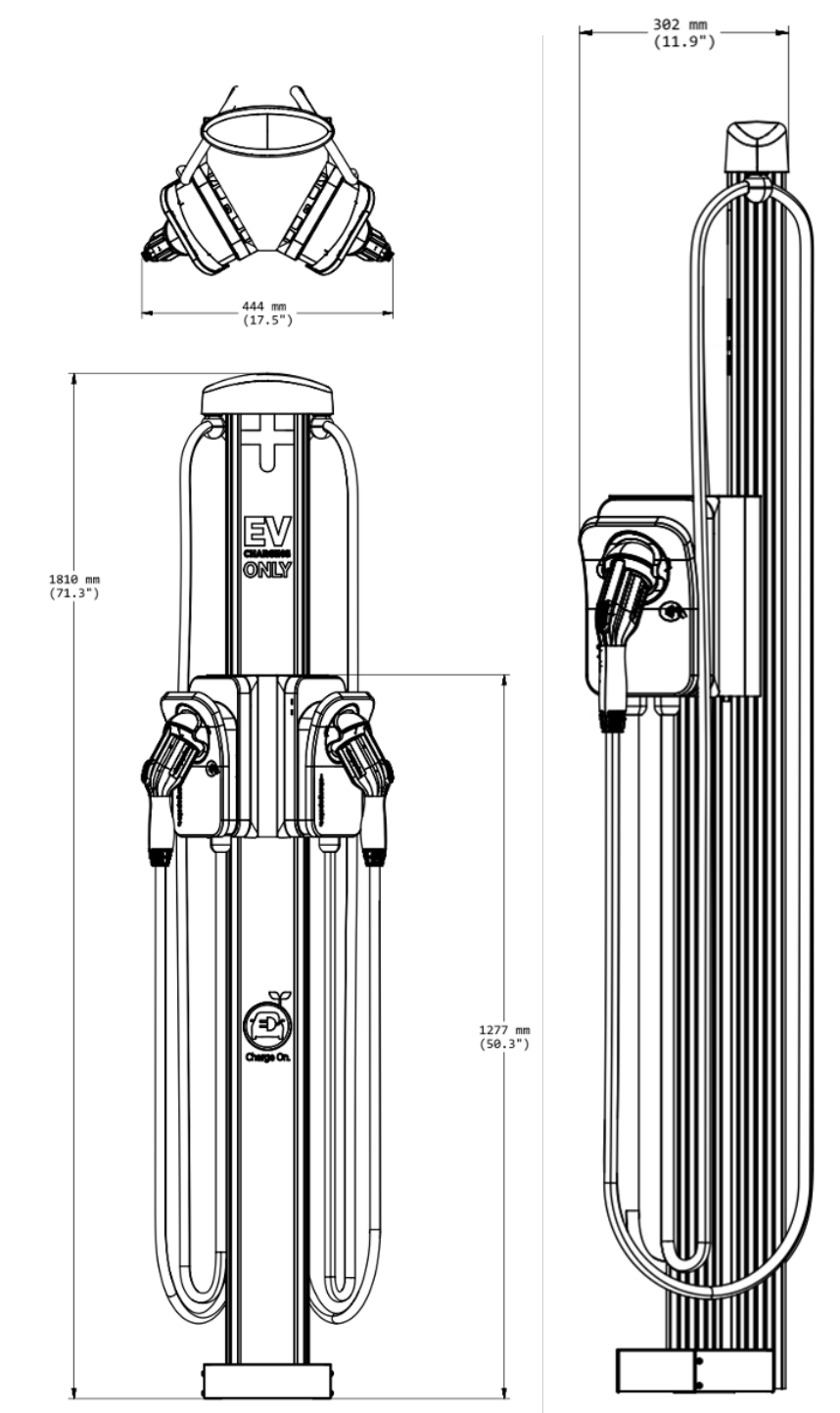
Single Pedestal Mount with Cable Management Kit

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



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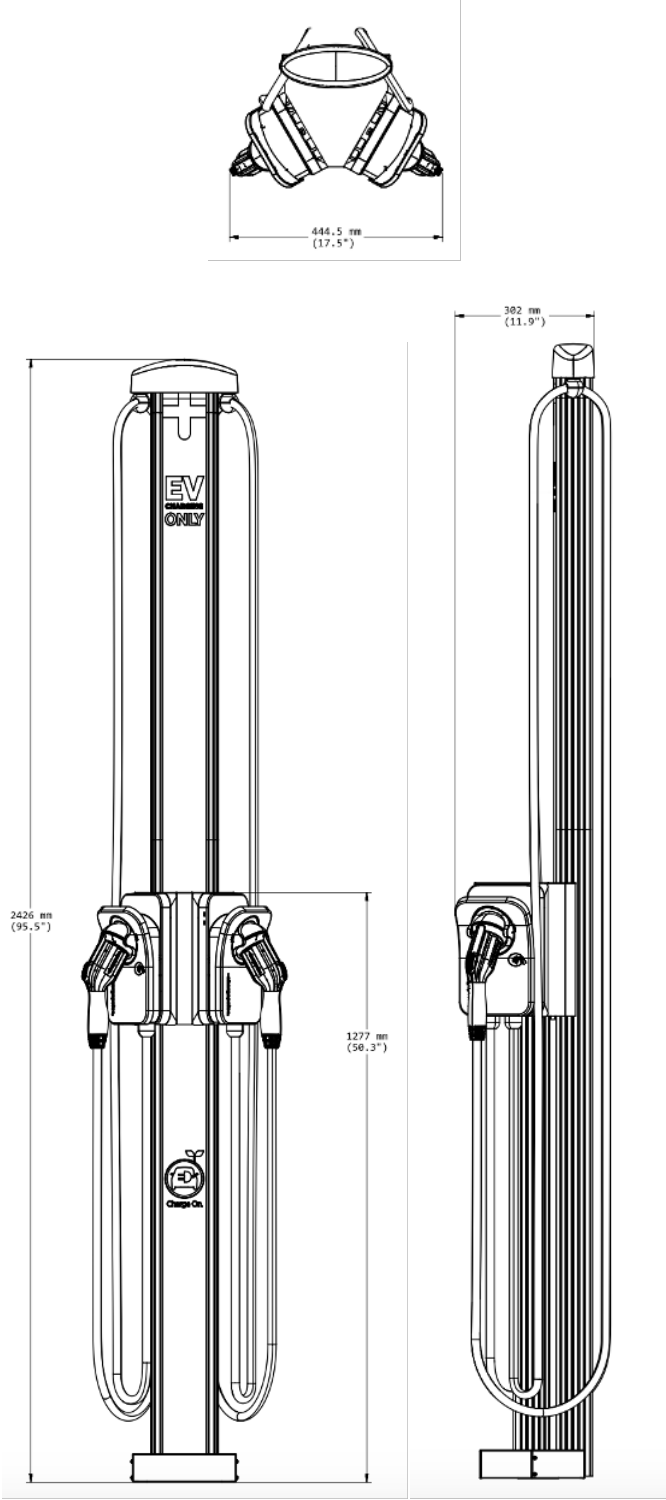
Dual Pedestal Mount with Cable Management Kit
CPF50-L18-PEDMNT-CMK6-Dual-GW (6 ft)



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Dual Pedestal Mount with Cable Management Kit

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



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