

**blink**

**LEVEL 2 AC EV**

# **IQ 200**

**CHARGING STATIONS**

**SPECIFICATIONS**



# Level 2 AC EV Charging Stations

**The Blink IQ 200 Product Family** is a collection of Level 2 AC Electric Vehicle (EV) charging stations. The products offer a modern and stylish appearance, the versatility of multiple charging current options, the ability to be installed in wall-mounted and pedestal-mounted configurations, and a peer-to-peer communications architecture which provides the ability to support a single primary charging station and multiple secondary charging stations.

## FEATURES

### Blink IQ 200 Unique Design

- Future-proof design supports charging currents from 12A to 80A
- Intuitive charge connector holster provides protection and storage
- Multi-colored high visibility illuminator indicates charging station's status
- Convenient cable management design supports a long reach and storage between uses
- Height design conforms with ADA requirements
- Fee options include time-based, kWh-based, or session-based billing functionality
- Payment methods: RFID and all major credit cards
- Pedestal accessories include single, dual, and triple port options
- OCPP support
- Updated 23ft. cable with an ergonomic design
- Button locking mechanism prevents accidental disconnection

### Touch Screen

- Daylight readable 7" color LCD with touch screen and 800 x 480 resolution
- Convenient, user-friendly user interface
- Displays charging station status and transaction details
- Pre-loaded with the Blink commercial user interface

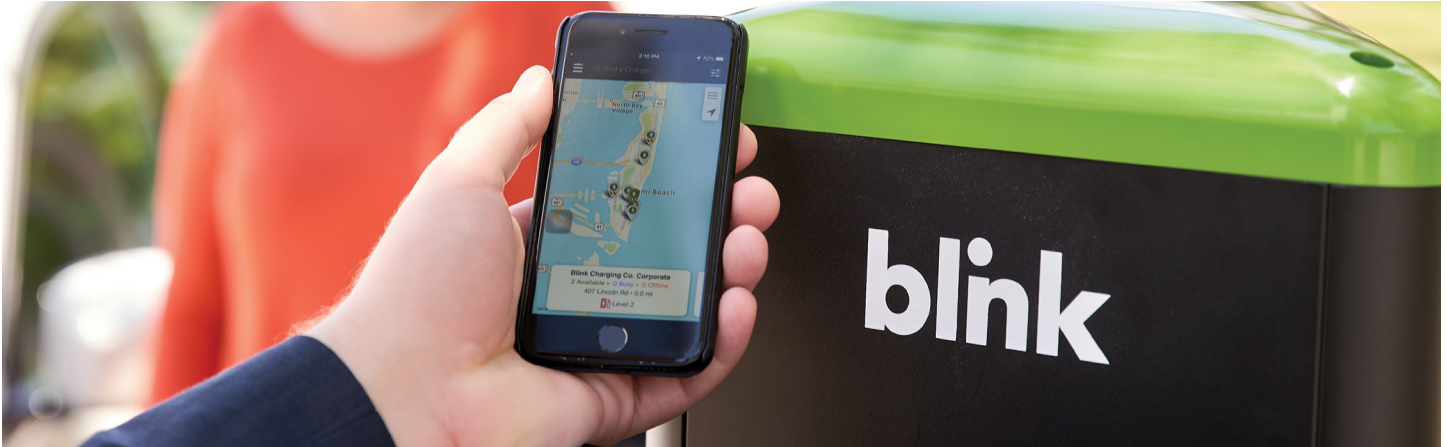
### Type 2 Charger Connector

- SAE J1772 Charge Connector (Standard in the United States)
- Grounded pole – first to make contact, last to break contact
- Designed for more than 10,000 cycles
- Can withstand being driven over by a vehicle
- Safe for use in wet or dry locations
- Compatible with integrated charge connector holster

### Energy Management



# Level 2 AC EV Charging Stations



- Internal meter to monitor energy and demand usage
- Supports real-time energy usage data evaluation
- OpenADR 2.0b certified controllable output, supporting utility demand response requests
- Local load management capability for optimal energy outputs

## Network, Product, and Customer Support

- Multiple modes of communication, including Wi-Fi and cellular
- Over-the-air firmware management enables remote updates
- Blink Customer Support Center with tracking system
- Blink Network Operations Center actively monitors/manages network
- Smart grid implementation and support for commercial use
- Smart-phone applications for status changes and notifications
- Role-based features to manage permissions and access levels
- Ability to manage multiple chargers with detailed data sets
- Secure, high-availability, enterprise-grade

infrastructure

- Geographically separated secondary systems for disaster recovery and management

## Safety and Compliance

- Ground monitoring circuit
- Charge circuit interrupting device (CCID) with automatic test
- Nuisance tripping avoidance and auto re-closure
- Cold load pickup (randomized auto-restart following a power outage)

## Promotion and Advertising

In addition to promoting locations and Blink charging stations to EV drivers across the country via the Blink Mobile App and Blink Map, the Blink IQ 200 charging stations support the opportunity to promote and/or advertise businesses, properties, products, and services.

- Rich multimedia touch screen can be easily customized via Blink Ad Loop functionality
- Station panels can also be customized for branding and advertising and can be updated as necessary

# Charging Stations Comparison

| BLINK IQ 200 PRODUCT SPECIFICATIONS |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| MODELS                              | SMART CHARGING STATION                                                                                                                                                                                                                   |       |       |       |       | ADVANCED CHARGING STATION                                                                                                                                                                                                                   |        |        |
| Model Number                        | IQW2-80U-W2-N1-N-25                                                                                                                                                                                                                      |       |       |       |       | IQW2-80U-M2-R3-N-25   IQW2-80U-M3-R3-N-25                                                                                                                                                                                                   |        |        |
| Part Number                         | 01-0205                                                                                                                                                                                                                                  |       |       |       |       | 01-0207                                                                                                                                                                                                                                     |        |        |
| POWER SPECIFICATIONS                |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Standby Power                       | <10W Standby                                                                                                                                                                                                                             |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Output Power (kW)                   | 2.9kW                                                                                                                                                                                                                                    | 3.8kW | 5.8kW | 7.7kW | 9.6kW | 15.4kW                                                                                                                                                                                                                                      | 17.3kW | 19.2kW |
| Output Amperage (A)                 | 12A                                                                                                                                                                                                                                      | 16A   | 24A   | 32A   | 40A   | 64A                                                                                                                                                                                                                                         | 72A    | 80A    |
| Circuit Breaker Options (A)         | 15A                                                                                                                                                                                                                                      | 20A   | 30A   | 40A   | 50A   | 80A                                                                                                                                                                                                                                         | 90A    | 100A   |
| Input/Output Nominal Voltage        | 208VAC/240VAC                                                                                                                                                                                                                            |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Input / Output Voltage Range        | 180VAC to 264VAC                                                                                                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Input / Output Frequency            | 60Hz                                                                                                                                                                                                                                     |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Input Wiring Type                   | Hardwired                                                                                                                                                                                                                                |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Input Wiring Scheme                 | L1, L2, GND                                                                                                                                                                                                                              |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Cold-Load                           | Pickup Randomized delay between 120 and 720 seconds before charge resumes after a power failure.                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Power Measurement Accuracy          | Embedded meter with a ±1% accuracy at the nominal input.                                                                                                                                                                                 |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Surge Protection                    | Up to 6kV at 3,000A                                                                                                                                                                                                                      |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| FUNCTIONAL SPECIFICATIONS           |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Charge Connector Type               | SAE J1772                                                                                                                                                                                                                                |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Charge Cable Length                 | 23 ft.                                                                                                                                                                                                                                   |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Demand Response                     | Yes—OpenADR 2.0b                                                                                                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Status Indicator                    | LED and Audio                                                                                                                                                                                                                            |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| User Interface                      | None <sup>1</sup>                                                                                                                                                                                                                        |       |       |       |       | LCD, 7", Color, 800x480, w/Touch Panel                                                                                                                                                                                                      |        |        |
| Access Control                      | None <sup>1</sup>                                                                                                                                                                                                                        |       |       |       |       | Contactless Reader: RFID Cards: ISO/IEC 14443A/B, ISO/IEC 15693, MIFARE Plus, HID iCLASS, NEMA<br>Smart Credit Cards <sup>2</sup> : Visa, Master Card, Discover, American Express<br>NFC <sup>2</sup> : ISO 18092, Apple Pay, Google Wallet |        |        |
| NETWORK SPECIFICATIONS              |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Local Area Network (LAN)            | 2.4GHz Wi-Fi (802.11 b/g/n)                                                                                                                                                                                                              |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Wide Area Network (WAN)             | None                                                                                                                                                                                                                                     |       |       |       |       | 2G, 3G, and 4G LTE Support                                                                                                                                                                                                                  |        |        |
| Network Interface                   | Blink OCPP, OCPP 1.6J, Future: OCPP 2.0, OCPP 2.0.1 (Coming in 2022)                                                                                                                                                                     |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Mounting Type                       | Pedestal or Wall Mount                                                                                                                                                                                                                   |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| SAFETY & COMPLIANCE SPECIFICATIONS  |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Ground Fault Detection              | CCID20, 20mA per UL 2231, Automatic Reset Feature and Manual Reset Feature                                                                                                                                                               |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Ground Monitor                      | Ground Monitor per UL 2231                                                                                                                                                                                                               |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Safety Compliance                   | UL and cUL, NEC Article 625, RoHS, Norma Oficial Mexicana (NOM)                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Protection                          | Over-Voltage Protection (OVP), Under-Voltage Protection (UVP), Over-Current Protection (OCP), Over-Temp Protection (OTP), Short-Circuit Protection<br>UL approved input fuses (built in) short circuit rating: AC 200 kA RMS Symmetrical |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| EMC Compliance                      | FCC Part 15 Class B, Industry Canada (IC), PTCRB                                                                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| ADA Compliance                      | Yes                                                                                                                                                                                                                                      |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Energy Star Certified               | Yes                                                                                                                                                                                                                                      |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| OPERATIONAL SPECIFICATIONS          |                                                                                                                                                                                                                                          |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Enclosure Rating                    | NEMA 3R Certified, IK08 Certified                                                                                                                                                                                                        |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Operating Temperature               | -30°C to +50°C (-22°F to +122°F)                                                                                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Storage Temperature                 | -40°C to +80°C (-40°F to +176°F)                                                                                                                                                                                                         |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Operating Humidity                  | 0 to 95% Relative Humidity, Non-Condensing                                                                                                                                                                                               |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Charger Dimensions                  | 13.95"H × 10.65"W × 5.23"D                                                                                                                                                                                                               |       |       |       |       |                                                                                                                                                                                                                                             |        |        |
| Package Dimensions                  | 19.57"L x 14.92"W x 16.61"D                                                                                                                                                                                                              |       |       |       |       | 19.57"L x 14.92"W x 16.61"D                                                                                                                                                                                                                 |        |        |
| Charger Weight (Unpackaged)         | 24.2lbs. (11kg)                                                                                                                                                                                                                          |       |       |       |       | 25.3lbs. (11.5kg)                                                                                                                                                                                                                           |        |        |
| Charger Weight (Packaged)           | 30lbs. (13.6kg)                                                                                                                                                                                                                          |       |       |       |       | 31lbs. (14kg)                                                                                                                                                                                                                               |        |        |

Blink Charging Co. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

<sup>1</sup>If applicable, an adjacent primary Advanced Charging Station or Kiosk can provide access control for up to 20 secondary Smart Charging Stations.

# Pedestal Specifications

| BLINK IQ 200 PEDESTAL SPECIFICATIONS  |                               |                               |                                |                                |
|---------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| MODELS                                | RECTANGLE, SINGLE             | RECTANGLE, DUAL               | TRIANGLE, DUAL                 | TRIANGLE, TRIPLE               |
| Model Number                          | 01-0210                       | 01-0211                       | 01-0212                        | 01-0213                        |
| Number of Supported Charging Stations | 1                             | 2                             | 2                              | 3                              |
| User Interface Height                 | 48"                           | 48"                           | 48"                            | 48"                            |
| Pedestal Dimensions                   | 56.04" H x 13.58" W x 4.28" D | 56.04" H x 13.58" W x 4.28" D | 59.00" H x 12.50" W x 11.19" D | 59.00" H x 12.50" W x 11.19" D |
| Pedestal Weight (unpackaged)          | 60lbs.                        | 60lbs.                        | 74lbs.                         | 74lbs.                         |
| Pedestal Weight (packaged)            | 66lbs.                        | 66lbs.                        | 80lbs.                         | 80lbs.                         |



### Rectangle Pedestal

The rectangle pedestal slim installation is great for small spaces that may wish to expand in the future.



### Triangle Pedestal

Maximizing space, the triangle pedestal can securely mount 1-3 independent charging stations.



### Triangle Pedestal – Dual Port

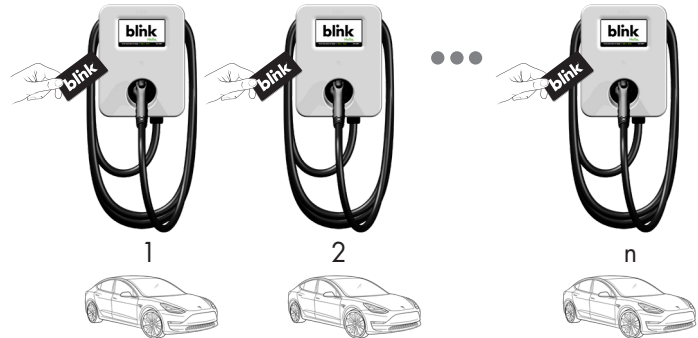
Dual Port Using the triangle pedestal, the dual port unit features 1 advanced and 1 or 2 smart chargers.

# UI and Network Architecture Options

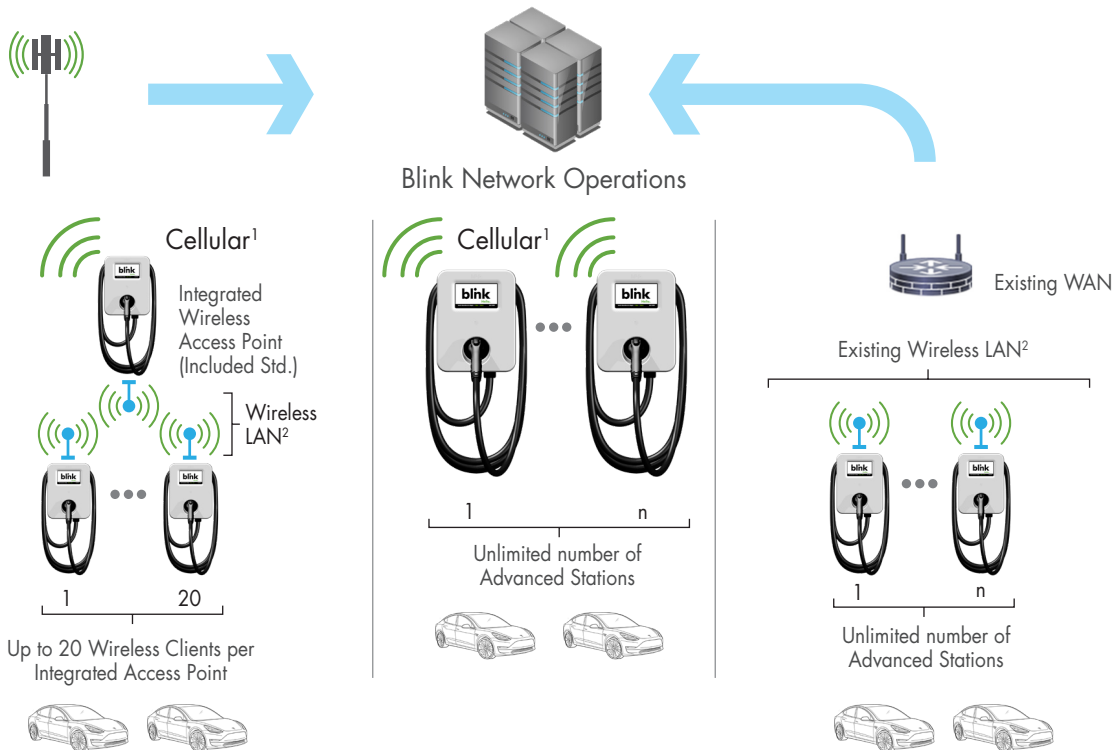
## USER INTERFACE OPTIONS

### Standalone

- Driver plugs in vehicle then utilizes the UI within the Blink Advanced Charging Station
- Each station operates independently



## NETWORK ARCHITECTURE OPTIONS

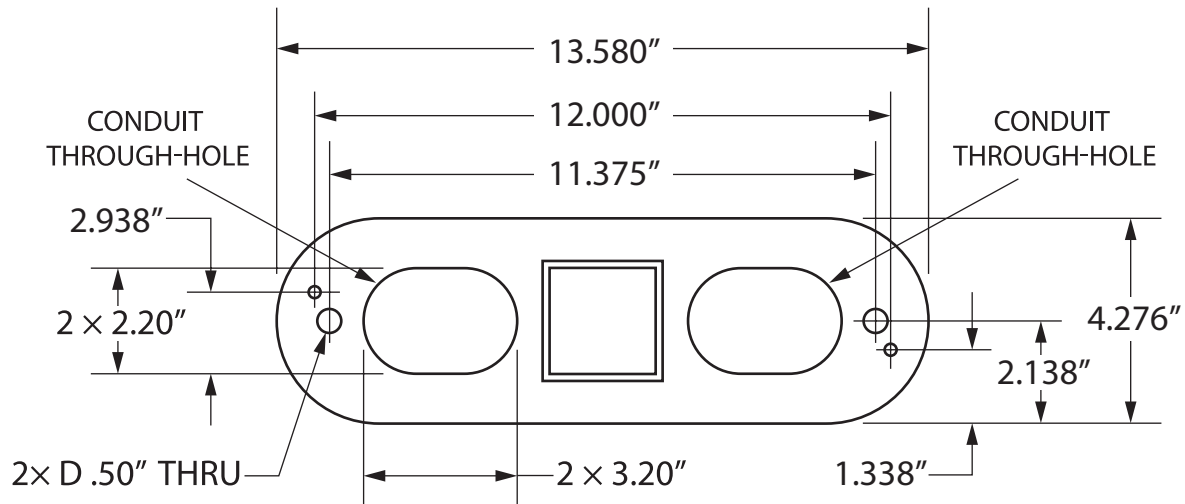


<sup>1</sup>Cellular 4G LTE GSM / CDMA Capable

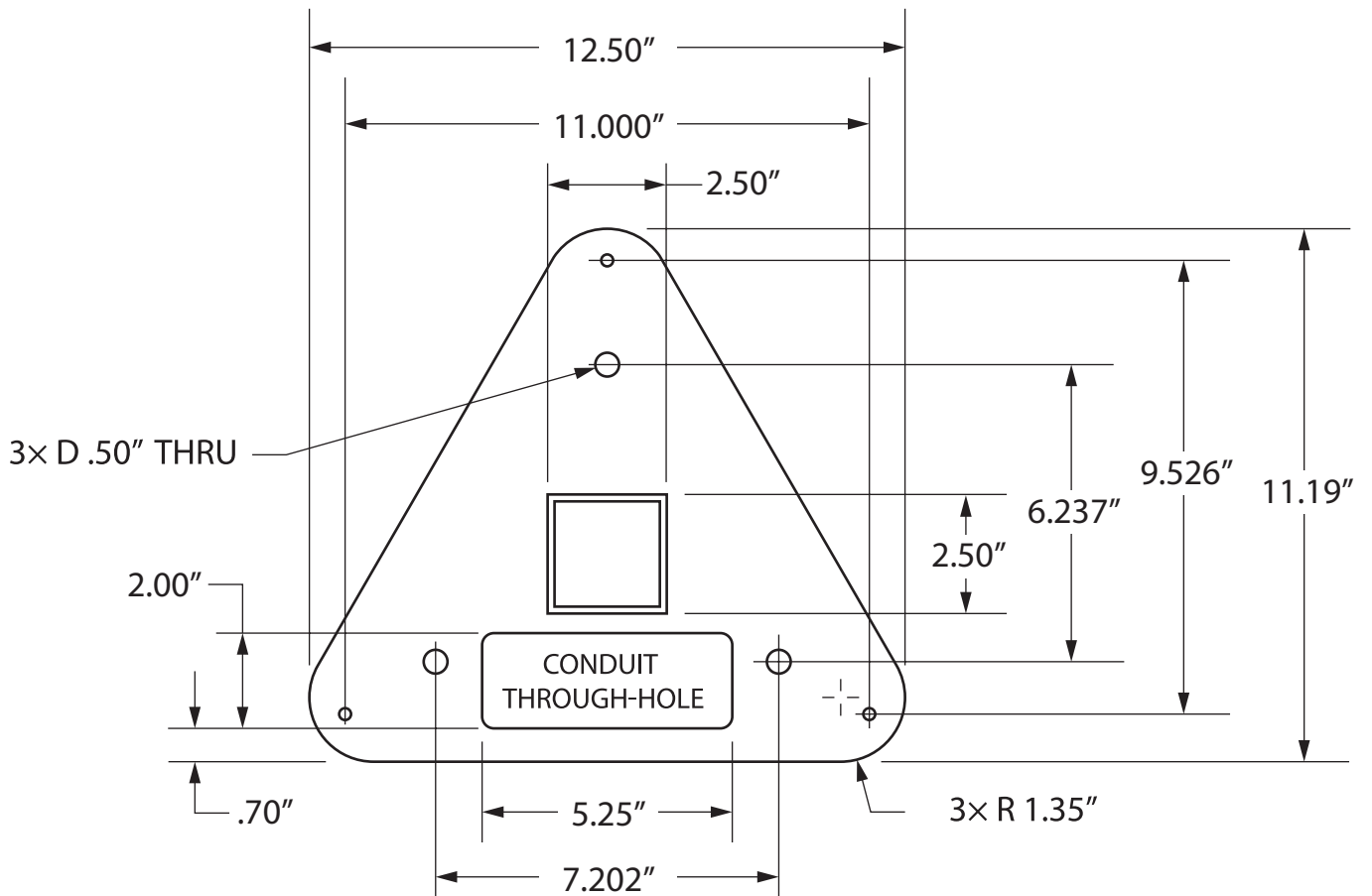
<sup>2</sup>Integrated Wireless LAN is 802.11 b/g/n capable

# Pedestal Base Hole Pattern

## RECTANGULAR PEDESTAL BASE HOLE PATTERN



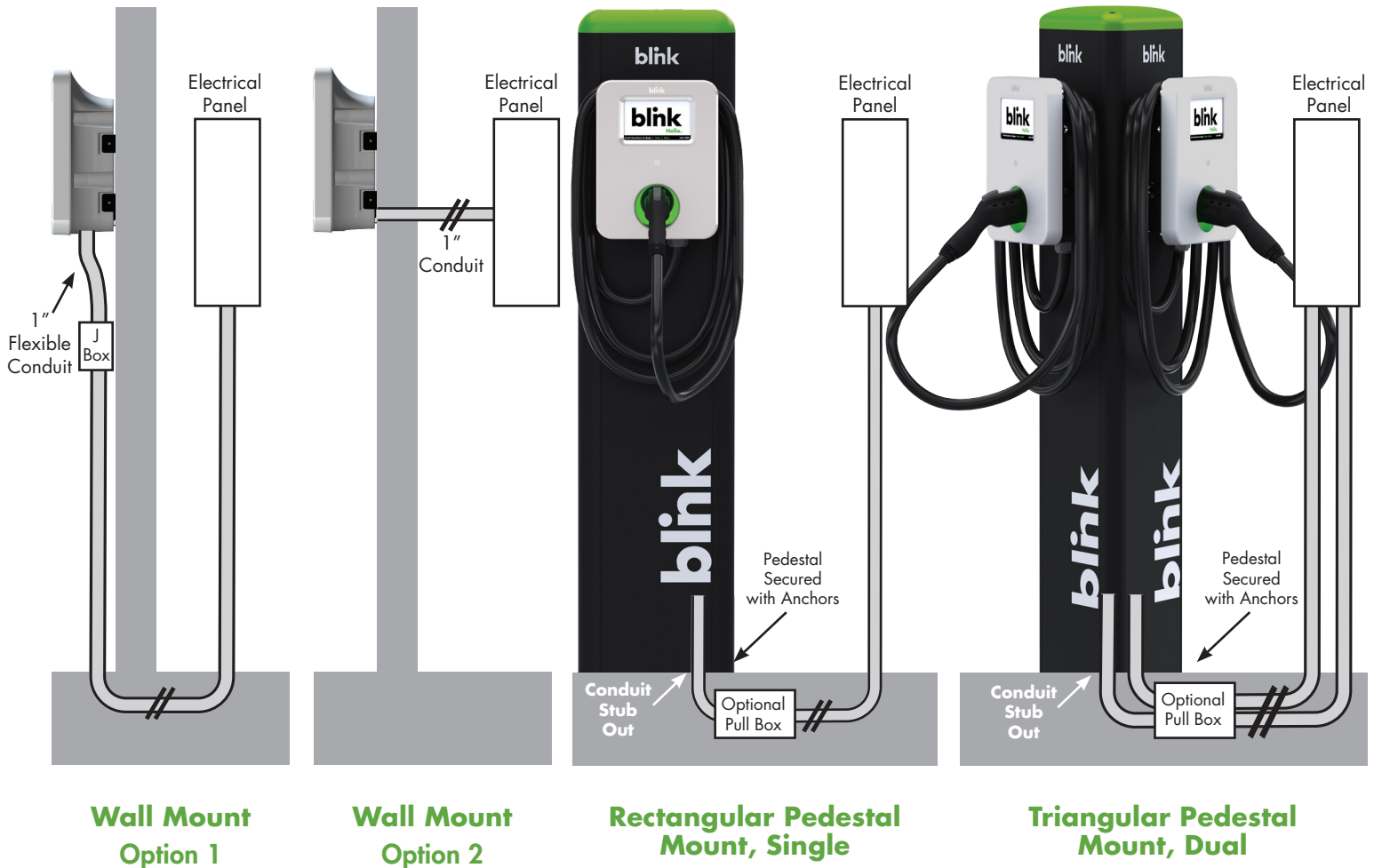
## TRIANGULAR PEDESTAL BASE HOLE PATTERN



# Pre-Installation Guide

| ELECTRICAL WIRING SPECIFICATIONS |                                      |                                                    |                                   |                       |                                                 |
|----------------------------------|--------------------------------------|----------------------------------------------------|-----------------------------------|-----------------------|-------------------------------------------------|
| Max. Continuous Current          | Typical Circuit Breaker <sup>3</sup> | Typical Wire Specs <sup>3</sup>                    | Typical Conduit Size <sup>3</sup> | Blink IQ Conduit Size | Notes/Assumptions                               |
| 12A                              | 15A                                  | Two #12AWG Wires (Line)<br>One #12AW Wire (Ground) | 1/2"                              | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 16A                              | 20A                                  | Two #10AWG Wires (Line)<br>One #8AW Wire (Ground)  | 3/4"                              | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 24A                              | 30A                                  | Two #8AWG Wires (Line)<br>One #10AW Wire (Ground)  | 3/4"                              | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 32A                              | 40A                                  | Two #8AWG Wires (Line)<br>One #10AW Wire (Ground)  | 3/4"                              | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 40A                              | 50A                                  | Two #6AWG Wires (Line)<br>One #8AW Wire (Ground)   | 3/4"                              | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 64A                              | 80A                                  | Two #4AWG Wires (Line)<br>One #8AW Wire (Ground)   | 1"                                | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 72A                              | 90A                                  | Two #3AWG Wires (Line)<br>One #8AW Wire (Ground)   | 1"                                | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |
| 80A                              | 100A                                 | Two #2AWG Wires (Line)<br>One #8AW Wire (Ground)   | 1"                                | 1"                    | ≤ 150 ft. One-Way Distance<br>≤ 3% Voltage Drop |

<sup>3</sup>Consult with a licensed contractor, licensed electrician, or trained installation expert to ensure compliance with local building codes and safety standards.



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