

ev63-FEV Technical datasheet

Dual Level 2 EV charging station for public, municipal, commercial and institutional applications

The ev63-FEV solution combines the Evera ev63 station with two Fractal EV FR-48C OCPP J1772 chargers. It brings together in a single product a rugged structure designed for public use, an integrated cable management system* and a connected charging platform capable of delivering up to 48 A per charger. An 80 A configuration may also be available depending on the project.

* Evera cable management system patent pending: WO/2016/008045.

Proudly Canadian

- ♣ **Evera** : Designed, manufactured and assembled in Montréal, Québec.
- ♣ **Fractal EV** : EV chargers designed and assembled in Waterloo, Ontario.

Key advantages

Superior cable management

Integrated into the station design. Improves appearance, simplifies cable storage and reduces cable and connector exposure to vehicles, snow removal operations and other conditions associated with public use.

Rugged and durable

Aluminum structure, aluminum and stainless-steel internal components, stainless-steel hardware and an industrial-grade powder coating.

Eligibility for incentive programs

The solution may be eligible for various incentive programs supporting the deployment of EV charging infrastructure, subject to the applicable program criteria.

Flexible installation

Compatible with multiple installation methods, including existing concrete slabs, concrete bases, helical piles and wall-mount configurations.

Easy to locate

At approximately 11 ft tall, the station is distinctive and easy to locate in parking areas and urban environments.

Protected connector position

Connectors are stored facing downward to help limit the accumulation of water, snow and debris.



EV Chargers designed for operators and installers

The Evera ev63 station houses two Fractal EV FR-48C OCPP J1772 chargers.

Specifications 48A EVSE

- 48A AC chargers
- Utility grade metering
- WiFi / 4G / Ethernet / Mesh networking
- Dual SIM slots
- Local Power Management
- Customizable screen
- Cloud configured (including OCPP)
- ETL Listed, FCC certified



Operations and Maintenance Cloud Included

Streamline Commissioning

- Decoupled IT and Electrical Onboarding
- Factory configured & Cloud Provisioning
- Reduce/Eliminate Warehousing

Reduce Site Visits

- Offline Charger Recovery
- Dedicated Mesh Network
- Data Reporting & Robust Logging

Preserve Flexibility

- Network Agnostic
- Rest API for Integrations
- No Cost Cloud Software

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Electrical Specifications

AC Input Rating	208 or 240 VAC / 60Hz Rear or bottom wiring options, Al / Cu input terminals
Current Rating	48 Amps
Metering	1% accuracy
Output cable	J1772, 25 ft (7,62 m)

User Interfaces

Display	4.3", outdoor-rated customizable color touch screen
Status Indicator	RGB LED ring
RFID Reader	ISO14443A/B, ISO15693, FeliCa Functional availability depends on the applicable configuration and integrations.
Audio	Buzzer for RFID feedback

Network Capabilities

Cellular	3G/4G CAT1 with dual SIM cards / dual antenna. e-SIM included
Wifi	802.11b/g/n - 2.4Ghz
Ethernet	10/100 mbps
Mesh network	802.11 proprietary mesh

Mechanical Data

Enclosure dimensions (H x W x D)	13.5" x 9.5" x 4-3/4"
Weight	10 lbs
Mounting	Integrated into the Evera ev63-FEV station

Environmental Data

Enclosure rating	IP65 IK08 (screen excepted)
Operating and storage temperature range	-22 °F to 122 °F (-30 °C to 50 °C)

Compliance

ETL, FCC, ICED, EnergyStar, CTEP	
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Features

Electrician/Owner Management Portal	Monitor and manage charger settings through FractalCloud
OCPP Support	OCPP 1.6J / OCPP 2.0.1
Mesh Networking	Redundant charger connections and automated commissioning using mesh
Power Management via local Mesh network	Cloud connected over-subscription for power constrained sites
Authorization Modes	• Plug-to-Start • Preset PIN Code • Accept any PIN Code • Local RFID • Accept any RFID Card • OCPP • Power Line Communication (ISO15118 and Autocharge upgradeable)
Fault reporting	Logs available in FractalCloud Driver submission via touch-screen

The Evera ev63 station houses two Fractal EV chargers and allows two vehicles to charge simultaneously.

Dimensions

Height	132,50 in
Width	30,00 in
Depth	17,40 in
Weight	250 lbs (station) / 340 lbs (station + packaging)

Primary materials

Structure	Aluminium
Internal components	Aluminium and stainless steel
Hardware	Stainless steel

Finish

Enclosure and base	Industrial-grade baked-on paint finish
Coating	3M vinyl wrap or equivalent available as an option

Environment

Designed for outdoor use and to withstand weather exposure and corrosion.

Cables

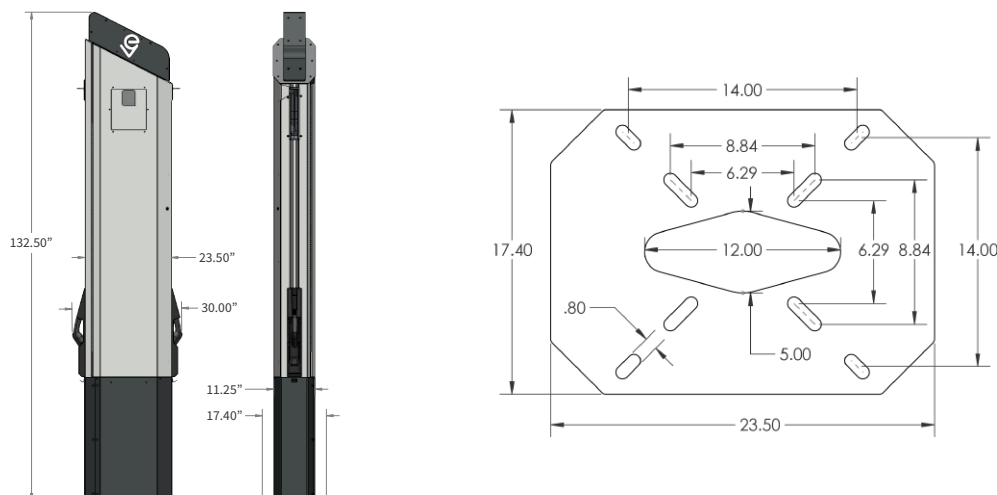
Total cable length per charger	25 ft (7,62 m)
Usable cable length within the Evera system	approximately 18 ft (5.44 m)

Cable management

Integrated cable retraction system built into the ev63 station

Auxiliary power supply

LED lighting system	It currently powers the LED lighting system and prepares the station's electrical infrastructure for certain future functions and additional accessories. See the Installation Guide for connection details.
Power Supply	Mean Well LPV-20-12
Compliance / ratings	cURus Recognized Class 2 LPS IP67
Input	120 VAC
Output	12 VDC
Maximum power	20 W
Maximum output current	1,67 Amps



Customization

The appearance of Evera stations can be customized to integrate seamlessly with the visual identity of a municipality, business, institution or other environment.

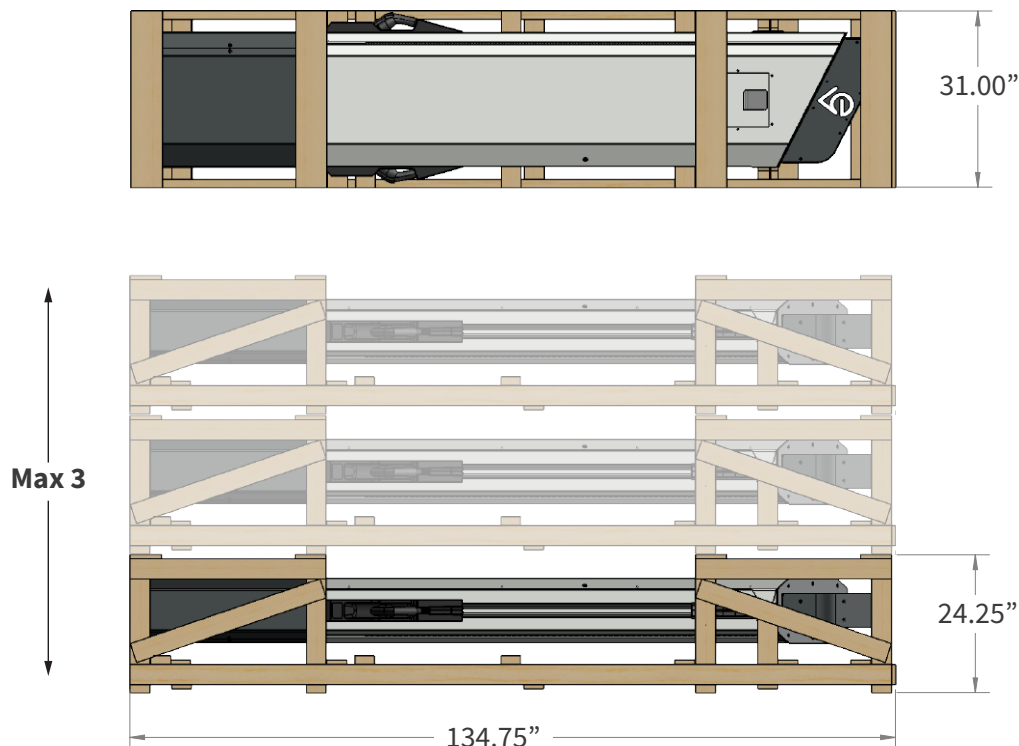
The station's large exterior surfaces provide a distinctive graphic area that can be adapted to the context of each project, reinforce a municipal or corporate identity, and incorporate various communication and signage elements.

Available options :

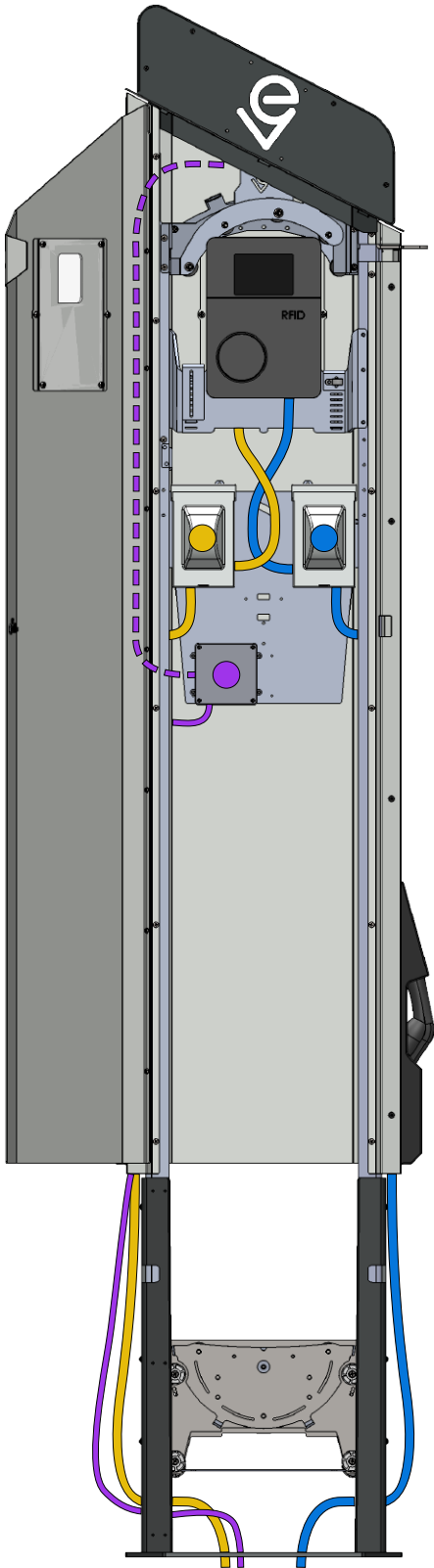
- Custom vinyl wrap
- Municipal or corporate identity
- User signage and information
- Advertising campaigns
- Custom station-head color



Packaging details



Electrical supply and infrastructure



Each Fractal EV charger must be supplied by a dedicated branch circuit, sized and protected in accordance with the manufacturer’s requirements, applicable electrical codes and accepted electrical practices. Additional information is provided in the Fractal EV specification grid on page 3.

The station also requires a separate power supply for auxiliary functions. Additional information is provided in the Evera specification grid on page 4.

The Evera station base includes a large opening for routing power feeds and conduits into the station. Illustration and dimensions available on page 4.

The simplified electrical diagram illustrates the routing of the two dedicated EVSE branch circuits and the auxiliary power supply through the station. **Follow the designated wiring path, identified inside the station by green arrow labels.**

Refer to the Installation Guide for detailed connection requirements and additional installation instructions.

-  Câblage auxiliaire préinstallé par Evera
Evera factory-installed auxiliary wiring
-  Alimentation auxiliaire : 120 VCA / 15 A
(Câblage à fournir et raccorder sur site)
Auxiliary power supply : 120 VAC / 15 A
(Field wiring and connection required)
-  Alimentation EVSE 1 : 208/240 VCA
(Circuit dédié)
EVSE branch circuit 1 : 208/240 VAC
(Dedicated circuit)
-  Alimentation EVSE 2 : 208/240 VCA (Circuit dédié)
EVSE branch circuit 2 : 208/240 VAC (Dedicated circuit)
-  Boîtier de raccordement du chargeur
(Fourni avec la station)
Charger connection enclosure
(Supplied with the station)
-  Boîte de jonction auxiliaire : JB552 ou équivalent
(À fournir par l'installateur)
Auxiliary junction box : JB552 or equivalent
(To be supplied by installer)

NOTE : Simplified electrical diagram. Colors are used solely to distinguish the different circuits and do not represent conductor colors.

Suggested installation methods and related accessories

Evera stations can be mounted in several ways depending on site conditions, existing electrical infrastructure, architectural context and project budget.

1. Anchoring on an existing concrete slab

This method uses a suitable solid surface already in place, such as a storefront apron, parking area, sidewalk or other adapted surface. It can reduce or eliminate additional concrete work.



2. Custom poured concrete base

Suitable when a new foundation is required or when several stations are being integrated into the same site layout. Anchors and conduits can be positioned directly during the concrete pour.



3. Evera wall-mount base

The station can be anchored to a vertical surface when conventional ground anchoring is not appropriate. The Evera wall-mount base can also be used on the ground when this configuration simplifies electrical connections.



Suggested installation methods and related accessories (continued)

4. Precast concrete base

A precast base can reduce on-site formwork and concrete-pouring requirements. A reinforced steel installation plate can be used to match the dimensions of the Evera base.



5. Sonotube or equivalent

A concrete foundation method providing good stability and a straightforward installation when site conditions are suitable. Minimum recommended diameter : 24 in.



6. Helical pile

A solution that can reduce or eliminate concrete and excavation work. The station can be secured to the pile using a steel head adapted to the Evera base.



Consult your representative for guidance in selecting the installation method and accessories best suited to your project.

Distribution and support



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Manufacturers



Seamlessly transition into the electric vehicle era with
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