EverCharge




# EverCharge DC Charge Station 100kW

## Key Features

- SAE DC / CHAdeMO dual charging ports
- DIN 70121 / CHAdeMo compliance
- Max. output power: 100 kW
- Output voltage range: 50-1000 Vdc
- Max. 94% power effciency
- RFID card reader for user authentication
- Network connectivity
- Nema Type 3R protection

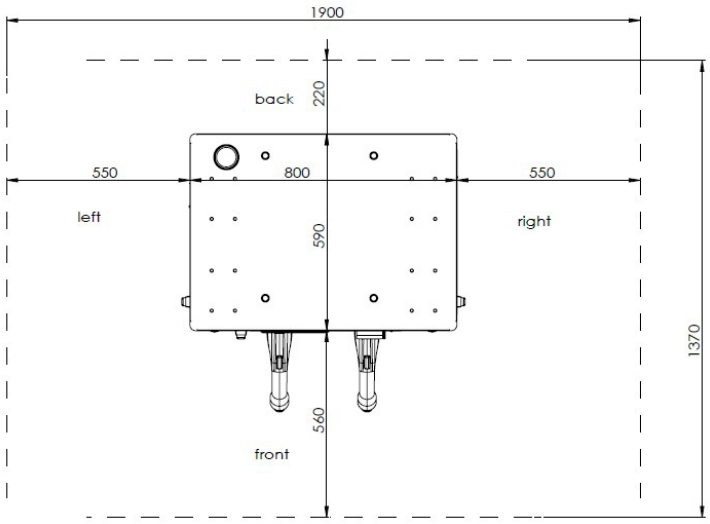
# Specifications

| **100kW model** | | Single Output | Dual Outputs |
|---|---|---|---|
| Power Input | Input Rating | 480Vac, 3-Phase, 50 / 60 Hz, L1, L2, L3, N, PE | |
| | Power Factor | 0.99 at nominal output | |
| | Current THD | Compliant with IEEE 519: 2014 | |
| | Efficiency | 94% at nominal output power | |
| Power Output | Output Voltage | 50 – 1000 Vdc | |
| | Output Interface | DC output options: CCS1, CHAdeMO | |
| | DC Output Current | 200A max. | 200A max. |
| | DC Output Power | 100kW max. | 100kW max. |
| Protection | Protection | Over current, Under voltage, Over voltage, Residual current, Surge protection, Short circuit, Over temperature, Ground fault | |
| User Interface & Control | LCD module | 7 inch LCD Touch Panel | |
| | Support Language | English | |
| | Push Buttons | 1 Emergency Stop Button | |
| | Charge Options | - | Simultaneous charging and configurable dynamic load sharing |
| | User Authentication | ISO/IEC 14443 A/B Mifare RFID reader | |
| Communication | Network Interface | Cellular or EverCharge Mesh Network | |
| | Protocol | OCPP1.5-S, OCPP1.6-J, upgradable to OCPP2.0 | |
| Environmental | Operating Temperature | Operating from -30 ºC to +60 ºC; Derating from +50 ºC to +60 ºC | |
| | Storage Temperature | -40 ºC to +80 ºC | |
| | Humidity | < 95% relative humidity, non-condensing | |
| | Altitude | 13,200 ft. (4,000 m) | |
| Mechanical | Ingress Protection | Type 3R (IP55) | |
| | Enclosure Protection | IK10 according to IEC 62262 | |
| | Cooling | Forced air | |
| | Charging Cable Length | 13 ft. (4 m) (Standard) ; 25 ft. (7.5 m) (Optional) | |
| | Dimension (W x H x D) / Weight[1] | 23.2 x 59.1 x 31.5 in. / 772 lb (590 x 1500 x 800 mm / 350 kg) | |
| Regulation | Certificate | ETL, Compliant to UL 2202 Issued: 2009/10/02 Ed: 2 Rev: 2012/12/14, CSA C22.2#107.1:2016 Ed.4 | |
| | | | |

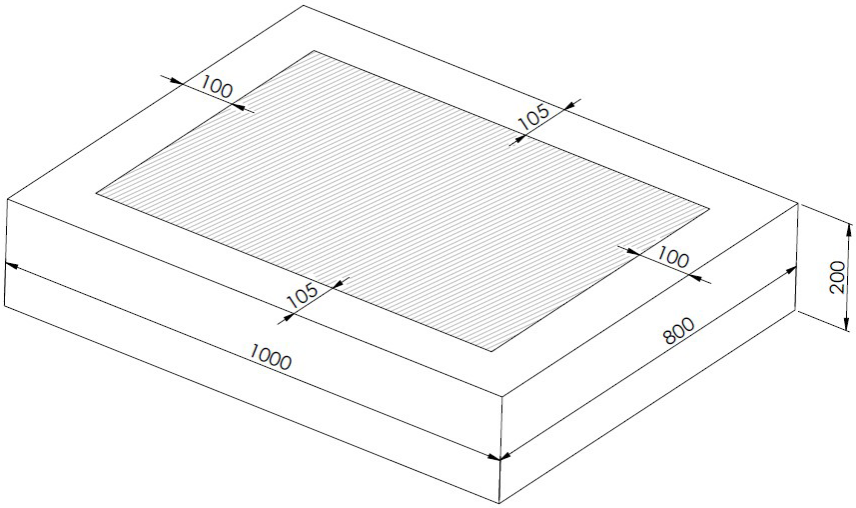
1. Dimension and weight including plug and 4 m connector, subject to variants.

**Ground mounting**

1. At least width 1900mm and depth 1370mm to ensure adequate ventilation and friendly maintenance
   - Charger size W x D x H: 800 x 590 x 1500 mm.
   - Front side 560 mm, in order to open the front door.
   - Left and right side 550 mm, in order to open left and right panel.
   - Backside 220 mm, in order to open the left and right panel fully.



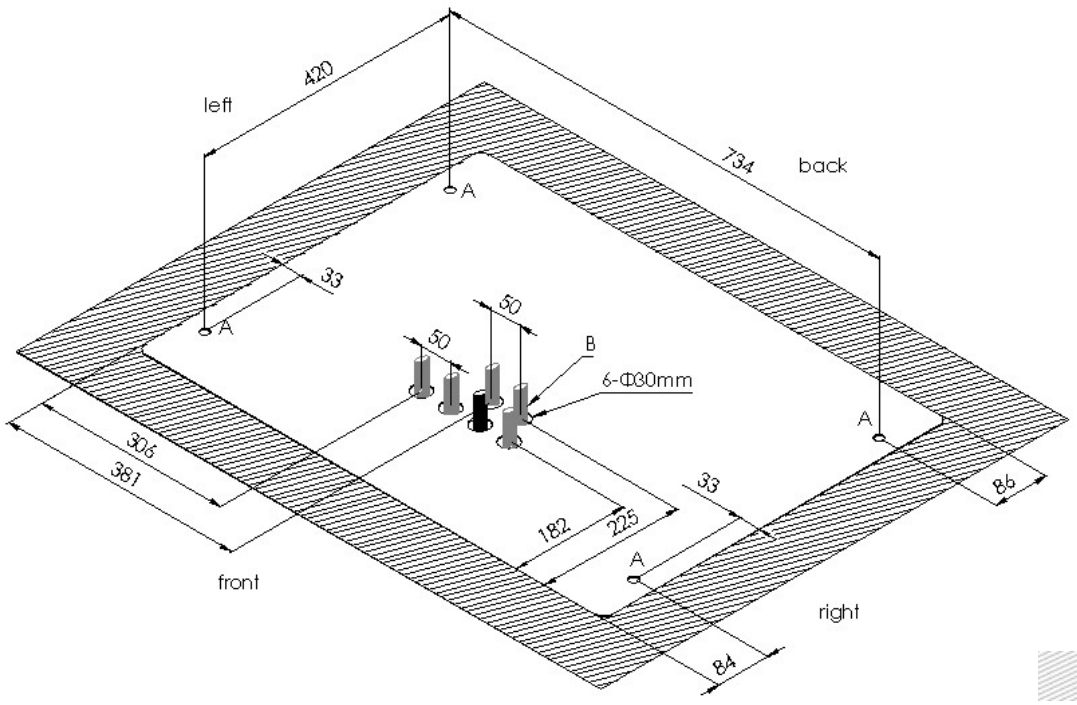

2. To fulfill UL2202 4.1.5 and ADA, cement base height is 200 (182~244) mm (8 inch)



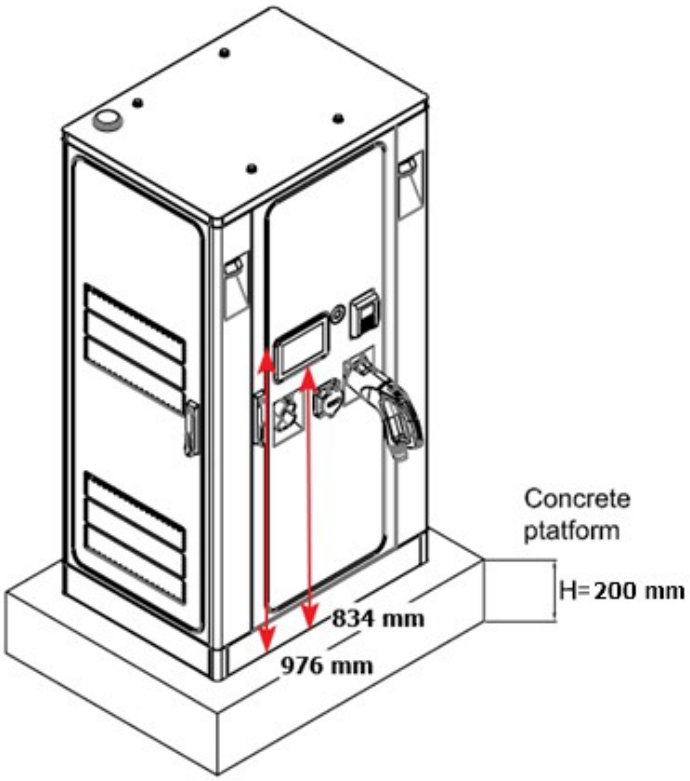

DC Charger base

3. Drilling four M12 holes for installing charger; drilling six $\emptyset = 30mm$ holes or a rectangle (W x D: 250 x 130 mm) for power cables.

- Drill and tap 4 holes (M12) in the cement base at the indicated positions (A).
- Make sure that the cables come out of the floor within 6 marked holes (B).
- Make sure that a cable length of 24in is available above the floor for internal routing in the cabinet.



**5.** Compliance. Total height is 976mm (LCD module top boundary) + 200mm (cement foundation)




6. Distance between adjacent chargers, walls or obstructions must be more than 1400 mm (55”) on sides and 300mm (12”) from back of charger.

