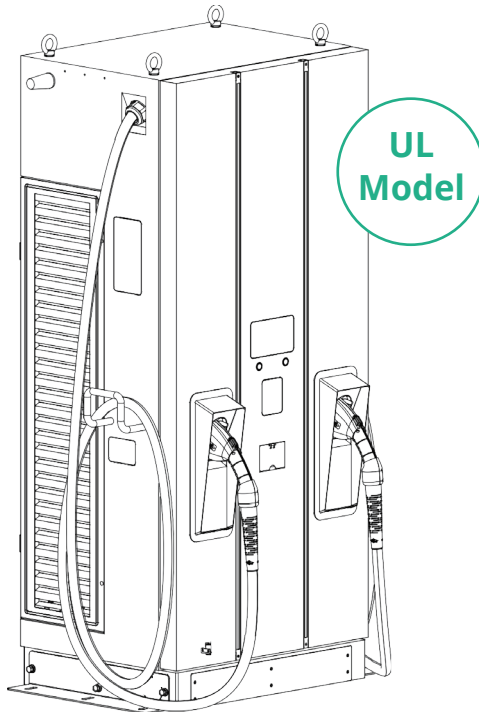


DC Series

# DC EVSE 180kW Standalone Fast Charger

User Manual



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## Revision History

Version	Date	Description	Author	
			Writer	Editor
V1.0	2023/12/12	First Issue	Clara	
V2.0	2024/05/15	• Free2Move customized first issue	Natalie	Julie



## Introduction

The Standalone DC Fast Charger is the top choice to power battery electric vehicles (BEV) and electric vehicles (PHEV). It is designed for quick charging in both public and private locations, such as retail and commercial parking spaces, fleet charging stations, highway service areas, workplace, residence, etc. The Standalone DC Fast Charger has the advantage of easy installation. The pluggable power modules realize flexible and cost-effective installation for different types of locations. The DC Standalone charger also has network communication capability. It can connect with remote network systems and provide drivers of electric cars real-time information, such as the location of charging stations, charging progress and billing information. The Standalone DC Fast Charger has a clear user interface with function buttons, safety certifications and an excellent waterproof and dust proof design to provide the best choice for outdoor environments.

### Features

- Pluggable power modules make installation easy and flexible.
- Offers customers the convenience of start/stop charging control from an authorized RFID smart card or mobile APP.
- Built according to the latest industry standards for DC charging.
- Carries an outdoor rating capable of withstanding solid and liquid intrusions in outdoor settings making the unit more stable and highly reliable.
- Provides interface Screen with Multi-function buttons.
- Applications
  - Public and Private Parking Areas
  - Community Parking Areas
  - Parking Areas of Hotels, Supermarkets and Shopping Malls
  - Workplace Parking Areas
  - Charging Stations
  - Highway Rest Areas



## Standards and References

- NFPA-70 - Article 625 - Electrical Vehicle Power Transfer System
- Electric Vehicle (EV) Charging System Equipment [UL 2202:2009 Ed.2+R:09Feb2018]
- Power Conversion Equipment [CSA C22.2#107.1:2016 Ed.4]
- FCC CFR Title 47 Part 15 Subpart B: 2018 Class A
- ICES-003: 2020 Issue 7
- Energy Star
- California Type Evaluation Program / National Type Evaluation Program (NIST Handbook 44)
- ISO 15118-2
- OCPP 1.6 JSON / OCPP 2.0



# 1. Specifications and Features

## 1.1 Device User Interface

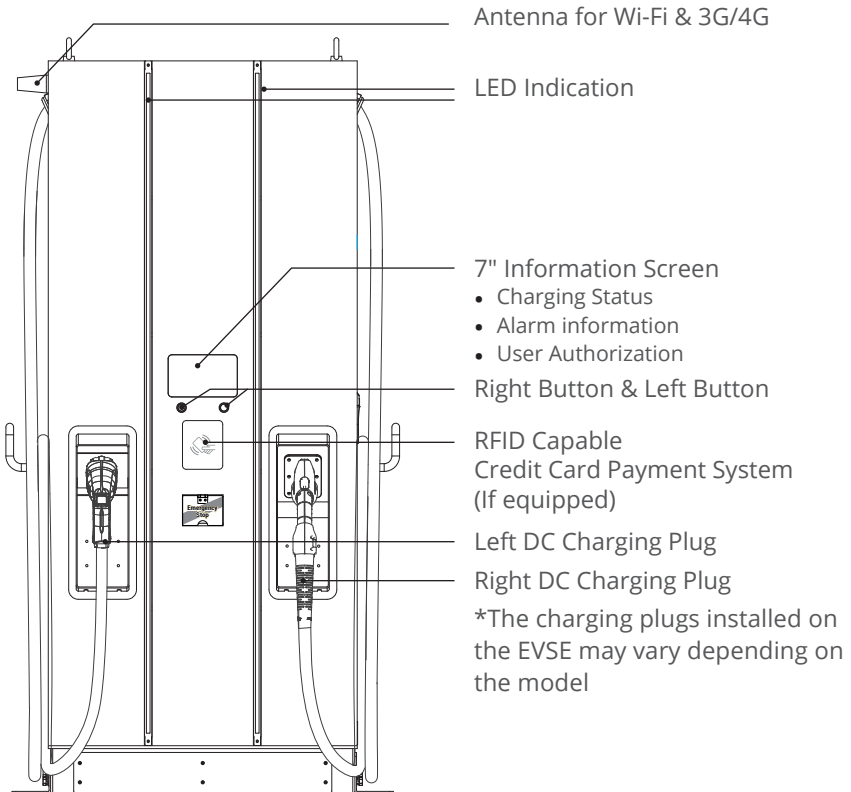


Figure 1. User Interface



## 2. Operation

### 2.1 Operating Sequence

- System Initialization
- User Authorization
- Plug in DC Charging Connector
- Preparing for Charging
- In Charging
- Charging Terminated
- Status Message

### 2.2 System Initialization

When the charger is powered on, the Charging Station Initializing page is shown. See Figure 1.



**Note:**

The initialization process will take around 2 minutes.

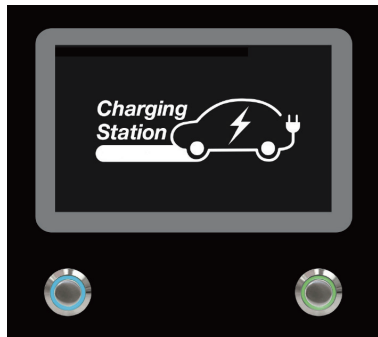


Figure 1. Initialization Page



After around 2 minutes the Home page will be shown. see Figure 2.



Unit and currency if billing function is enabled

• Ethernet Backend Status



• Wi-Fi Status



• 3G/4G Status



• OCPP Backend Status



Figure 2. Home page

### 2.3 User Authorization

1) Use your a mobile app, RFID card, or QR code to authorize the use of the EVSE. See Figure 3 and Figure 4.

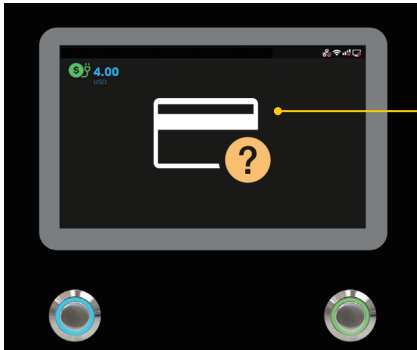


User authorization Method: RFID, QR code and mobile APP.

• Unauthorized method(s) will be darker on the screen if the method is disable.

Figure 3. Authorization Methods





User authorizing



User authorized.



Authorization failed

Figure 4. Authorizing Screen

## 2.4 Plug in the DC Connector

After authorization, the screen will show the Plug-in page. See Figure 5.

1) Remove the DC Connector from the holder and plug it into the EV charging port.



### Note:

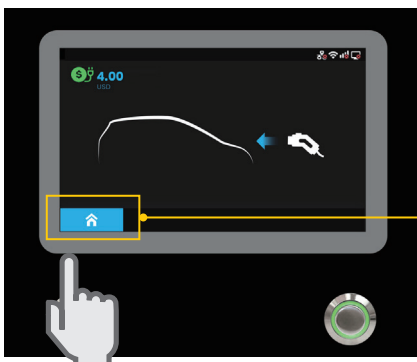
The charger will automatically detect the type of DC charging connector.



### Note:

Charging will normally start less than 10 seconds after the DC connector is plugged into the EV.

2) To stop charging, push the left button to return to the Home screen. See Figure 5.



Press left button to terminate this charging session and then return to Home page.

Figure 5. Plug-In Screen



## 2.5 Prepare for Charging

The charger will begin communicating with the vehicle and the Preparing screen will be shown.

- 1) Press the right button to select the charger connector the you would like to use. See Figure 6.

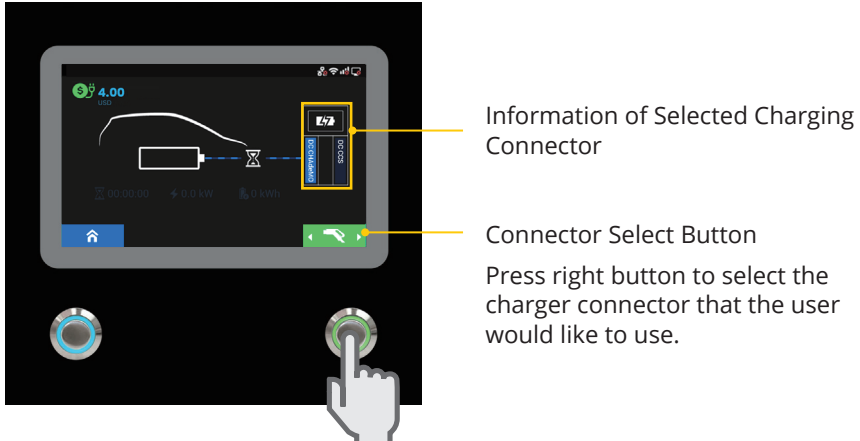


Figure 6. Preparing Screen

## 2.6 In Charging

The screen will show the charging screen once the charger goes into the ready to charge stage. Figure 7.

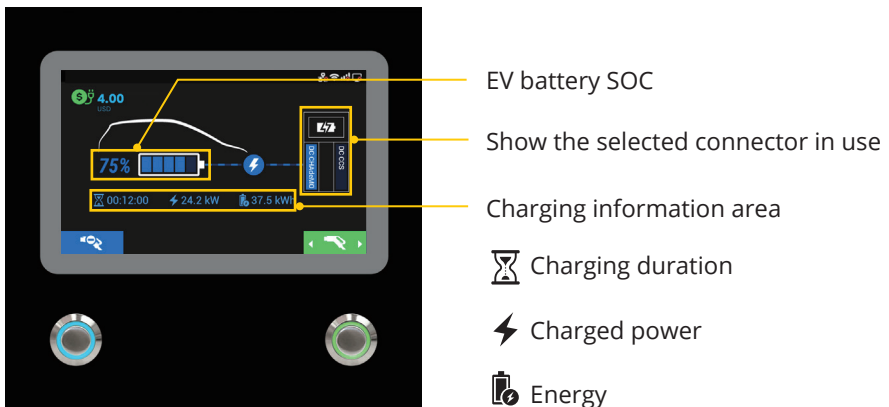


Figure 7. Charging page



When the battery has been fully charged or reaches a pre-set limit, it will stop charging automatically and go to the charging summary. The user can also tap the RFID to stop charging. See Figure 8.

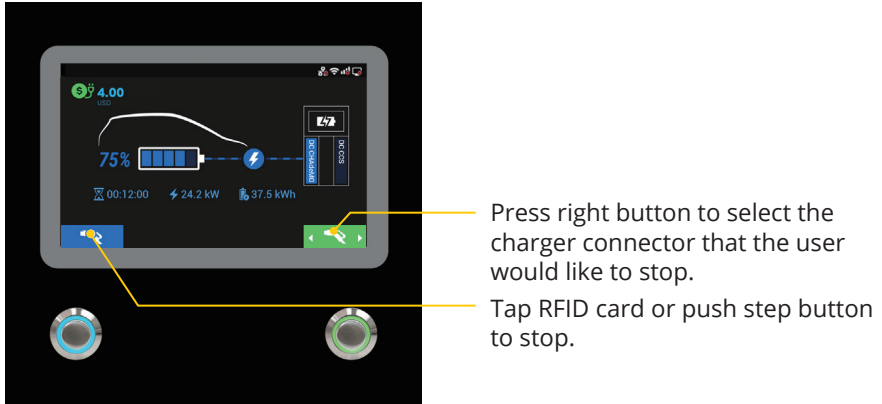


Figure 8. Stop Charging Screen

## 2.7 Simultaneous Charging

Two EVs can be charged simultaneously. Press the right button to initiate the authorization process to the 2nd EV. When two EVs are being charged, press the right button to switch the user interface between the two charging sessions.



## 2.8 Charging Summary

After charging is complete or stopped, the DC connector will automatically unlock and the charger will show the Charging Summary screen. See Figure 10.

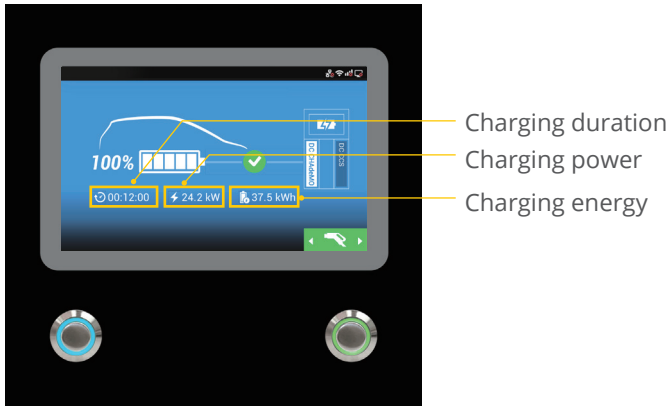


Figure 10. Charging Summary

1) Unplug the DC connector from the EV and return it to the holder.

The screen will return to the Home Page.

### **n** Note:

When both DC connectors are in use, the screen will go to the other connectors Charging screen when one is unplugged.

## 2.9 Status Messages

When there is a problem with the charger or charging process, a status code will display on the screen. See Figure 11

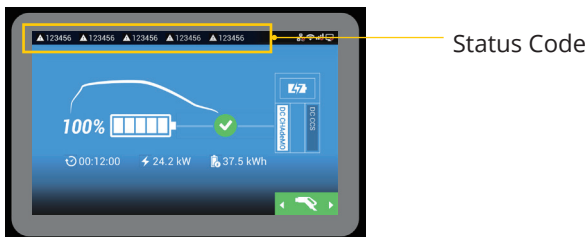


Figure 11. Status Codes









Manufacturer Contact Info Sticker

