Clearline
EV

User Guide
EO Charging App

CEV-S7

v1.0
80045

viridian solar
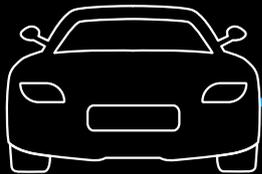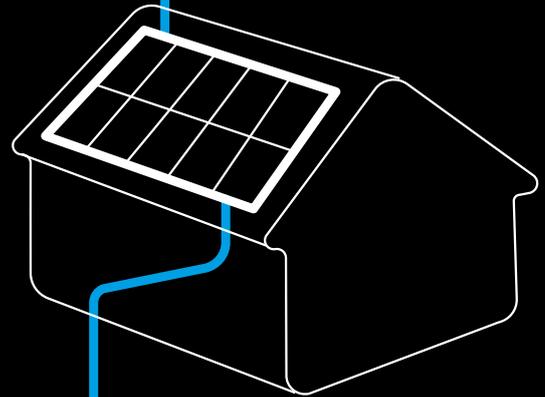
Table of Contents

Important: Read carefully before use. Keep for future reference.

1.0 Introduction

Welcome to your new EV charge point, the Clearline EV.

This guide will cover the registration process for the Clearline EV using the "EO Charging" smartphone app.

- The Homeowner will need to have the EO Charging app downloaded to their mobile device. The "EO Charging" app is available for both Android and iOS devices.

    If the app is yet to be downloaded, you can do so by heading to the EO website here: https://www.eocharging.com/download-app.

- When setting up the charger for Wi-Fi make sure to have the home router username and password available.

(i) **Please note:** The homeowner should position themselves next to the charger for carrying out the initial registration steps.

(i) It is important to note that the information in this document is subject to change without notice as the EO Charging app evolves, please download the latest version from www.viridiansolar.co.uk

2.0 Getting to Know the EO Charging App

1. Access to scheduling
2. Logging out of the app
3. Home screen
4. Settings and history
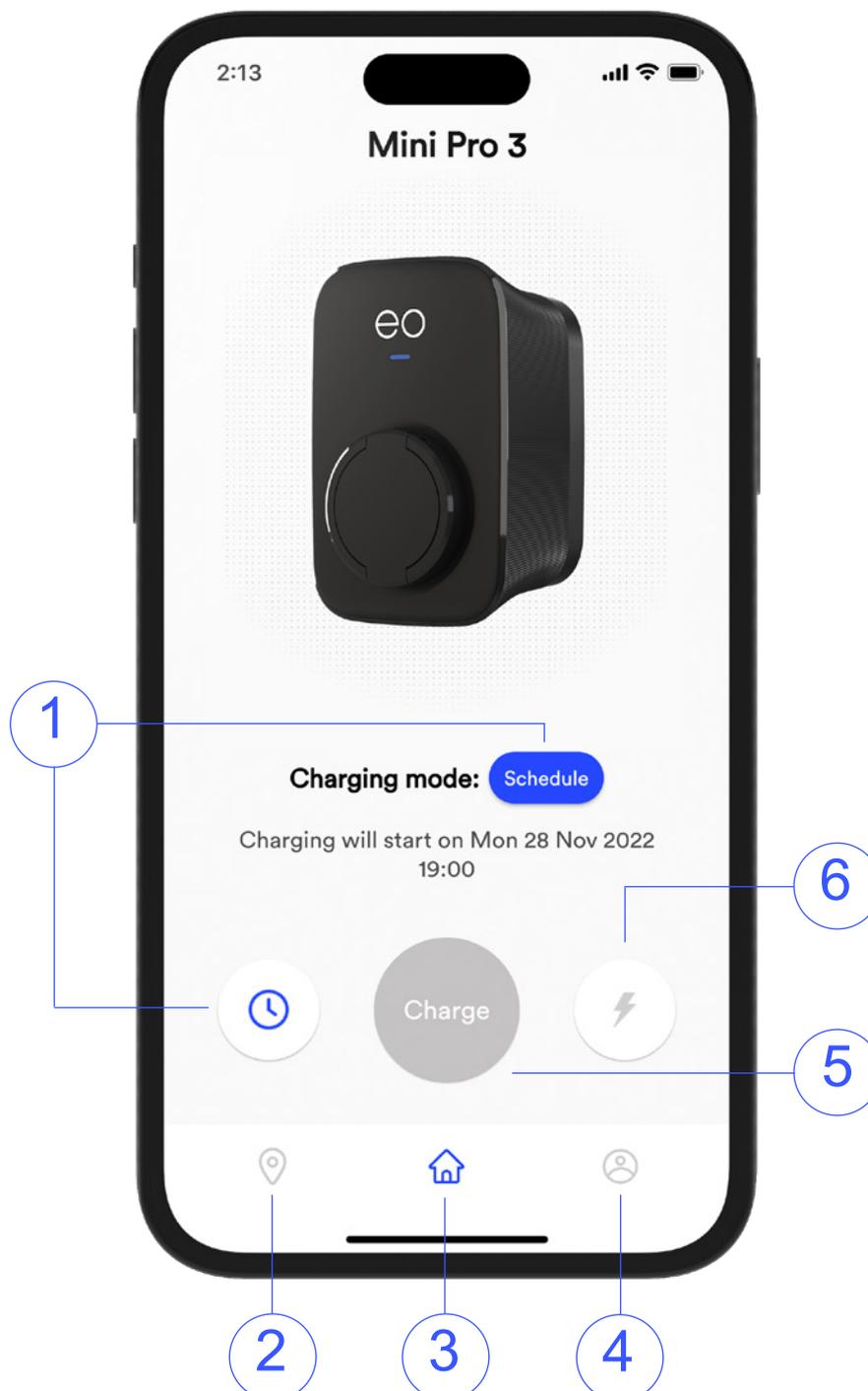5. Stop & start charging
6. Tariff settings (where available)

Figure 1: EO Charging app dashboard.

3.0 Initial Registration of the Clearline EV

It is assumed that:

- The Wi-Fi signal from the charger to the home router has been verified as being suitable at point of installation or an ethernet cable has been fitted and connected to the home router. If a GSM unit is fitted, follow the process for ethernet connection.

- The charger is powered on and will display a blue pulsing status LED.

Allow 10 minutes after charger power-up before you begin the registration process.

1. Download and launch the EO Charging app on either your iOS or Android mobile device.

2. Create a unique account by entering a valid email address and creating a password.

   (i) **Do not** use an account already registered with another Clearline EV or EO device

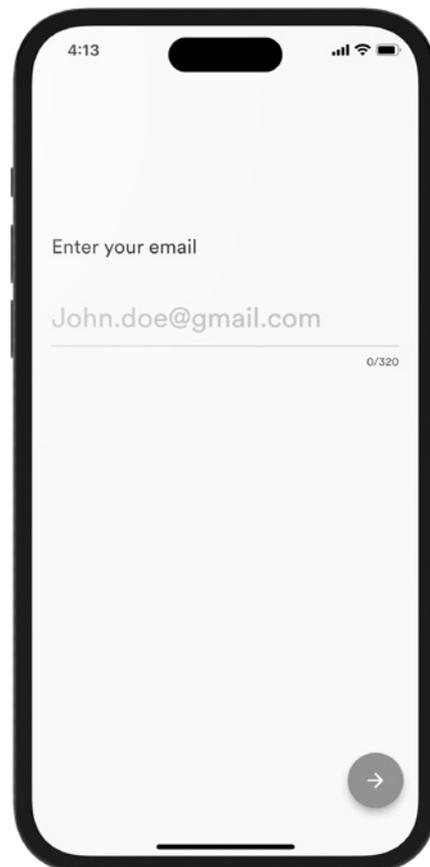3. Accept the terms and conditions.
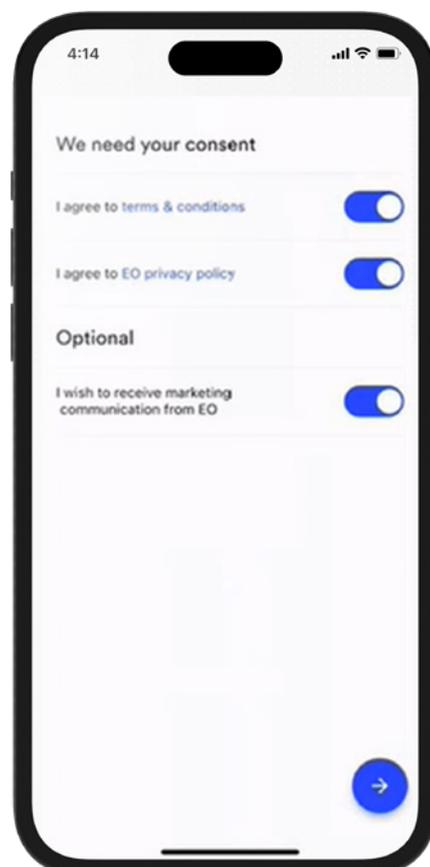

Figure 2: Registration email.

Figure 3: Terms and conditions.

4. A code will be sent to the email address
   you had entered. Enter this code into the
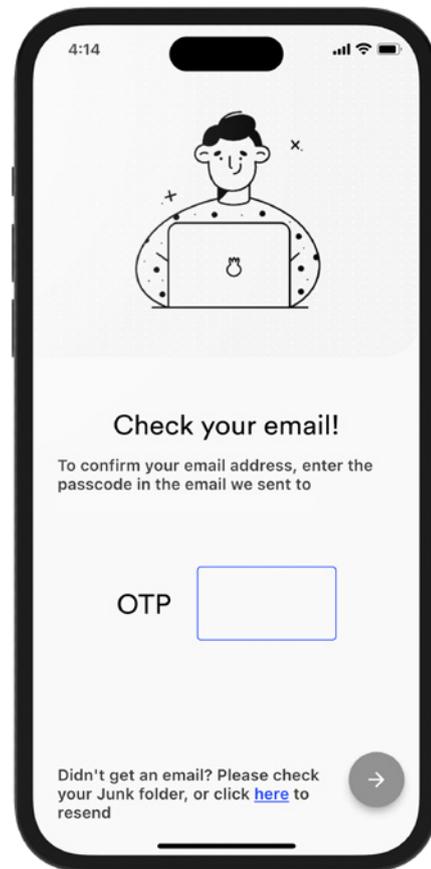   app to verify the account.

Figure 4: One Time Passcode (OTP).

5. You are presented with a welcome page
   where you are required to scan the charger
   QR code on the card provided in the
   packaging, or manually enter the charger
   serial number, resembling:

   eo-12345678901234

6. The app will now connect to the Clearline
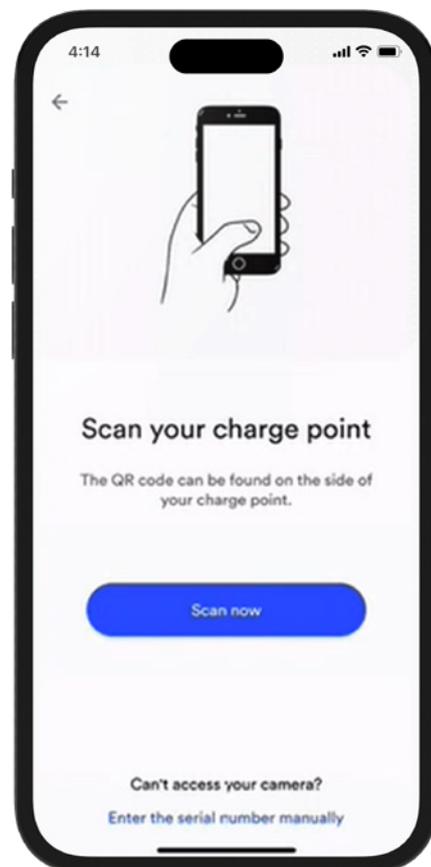   EV via Bluetooth.

Figure 5: QR scanning.

7. The charger will prompt you to select your home Wi-Fi router. Select your router from the list of devices found.

8. Enter your router access credentials. These are what you normally use to add a device to your home Wi-Fi.

   (i) **Note:** If your device is already connected via LAN or GSM you can skip the Wi-Fi setup and continue.
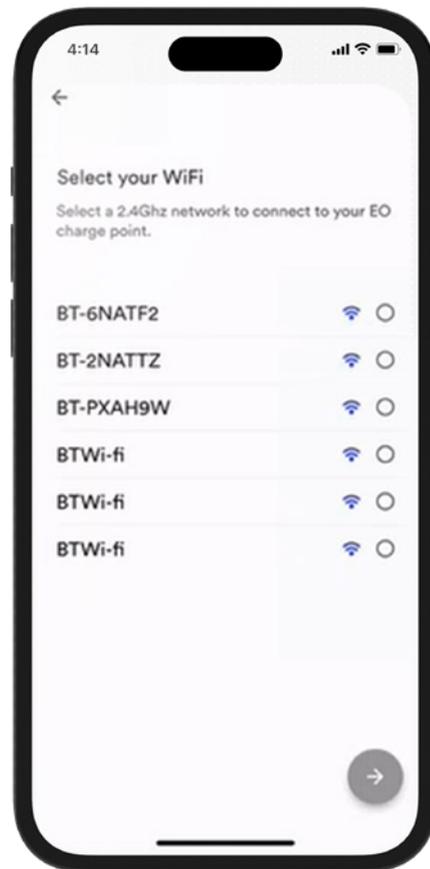

Figure 6: Home Wi-Fi selection.

9. Your Clearline EV charger will now begin its registration and update process. This may take a few minutes to complete.

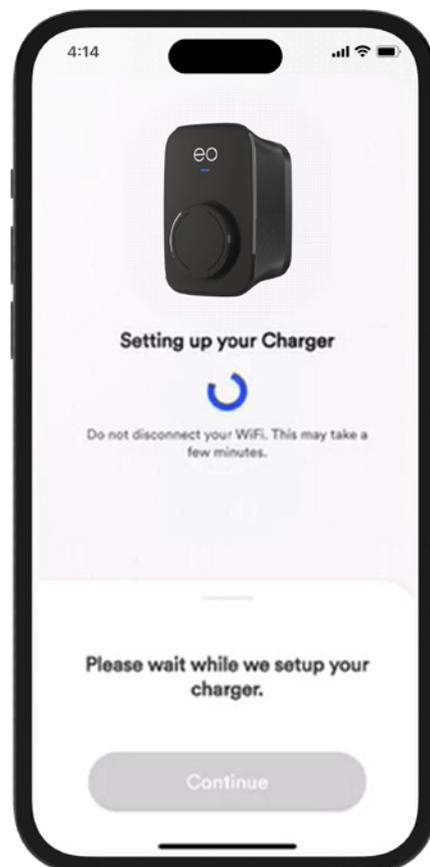   If required, you can navigate away from the EO app as the process will not be interrupted.

Figure 7: Processing registration.

10. The EO app will notify you when this process is complete and will prompt you to enter your details such as name, address, etc.

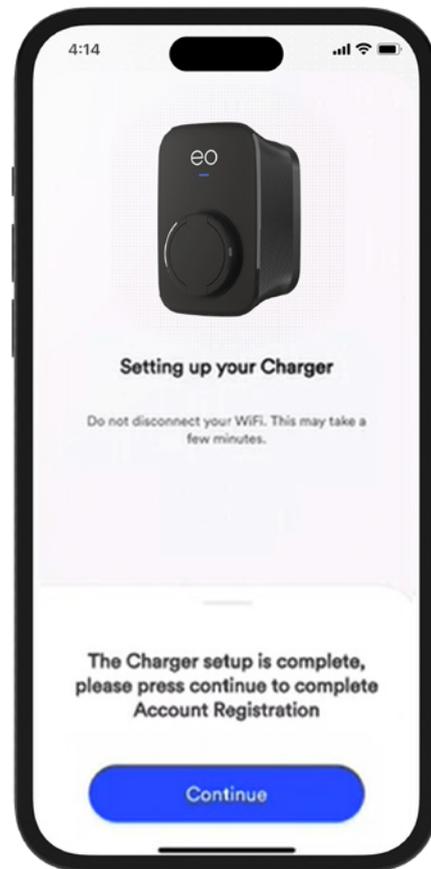11. Your initial product registration is now complete and you can now continue and personalise your device.

Figure 8: Successful registration.

4.0 Personalising your Clearline EV

Once the registration process is complete you are ready to personalise your Clearline EV.

1. Enter a name for your charger. An example could be "Paul" or "Lisa's charger".

2. Choose the charging mode required. Press the "Charging Mode" button or the "Clock" icon to enter the options. Two modes are available, "Auto" or "Schedule".

"Auto" mode will allow the charger to operate immediately when a vehicle is plugged in. This will depend on the "Random Delay" figure set when the charger was configured by your installer.

"Schedule" mode will only allow a charger session within the scheduled time window set.
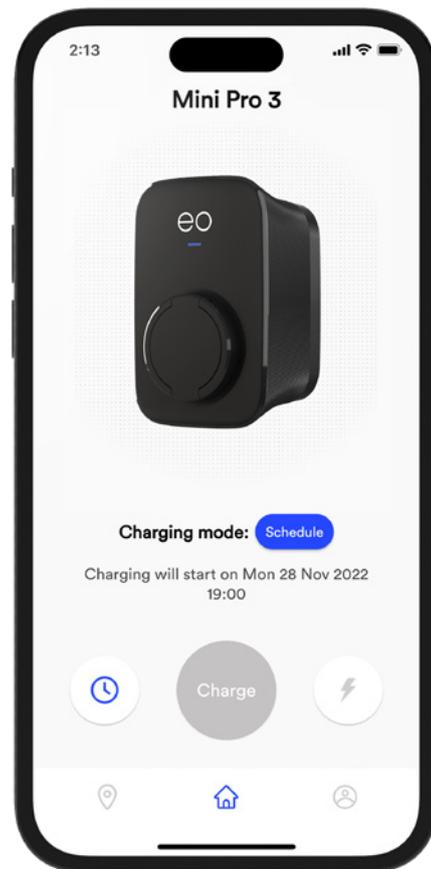

Figure 9: Charge mode selection.

3. An override option is available and offers increments of 60 minutes, offering up to a maximum of 180 minutes, therefore if you have a schedule set, you can override the schedule by using this function.

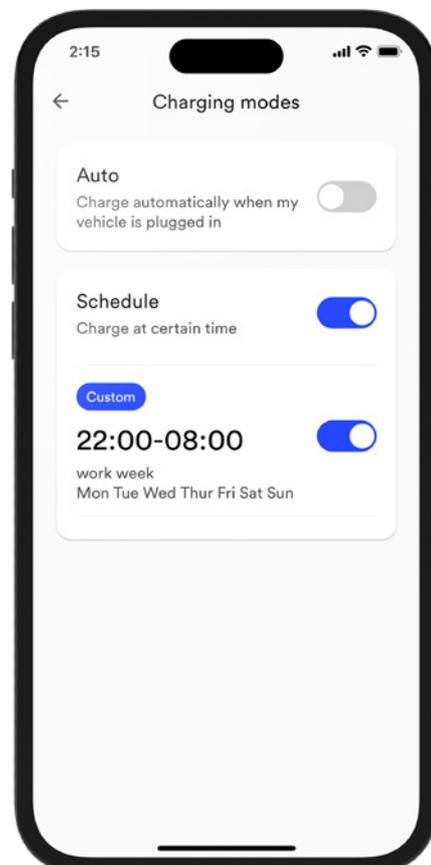**Congratulations** your new Clearline EV is now ready to use.

Figure 10: Schedule charging.

4.1 Additional Functions

There are other settings and functions which are available such as:

- Schedule customisation

- Viewing historic charge session data

- Restricting charger operation

4.1.1 CUSTOMISING A SCHEDULE

1. Within the charging mode page select "Custom".

   You also have the ability to customise a Solar schedule from here.

Solar Tracking

With **Net Solar** functionality enabled your car is charged as far as possible from your solar panels.

Clearline EV controls its charging rate to track surplus solar generation, (the amount by which solar generation exceeds other electrical demands in the building), with a minimum charge rate of 1.4kW.

2. Set the time schedule required and add days of the week you wish the new schedule to apply. Save the new setting and return to the home screen.

   If you wish to remove a saved schedule you can delete it from this screen by clicking "Delete schedule".
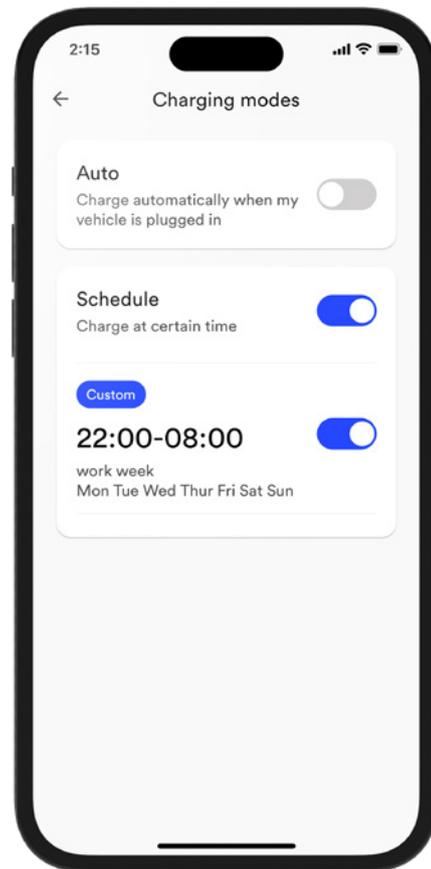

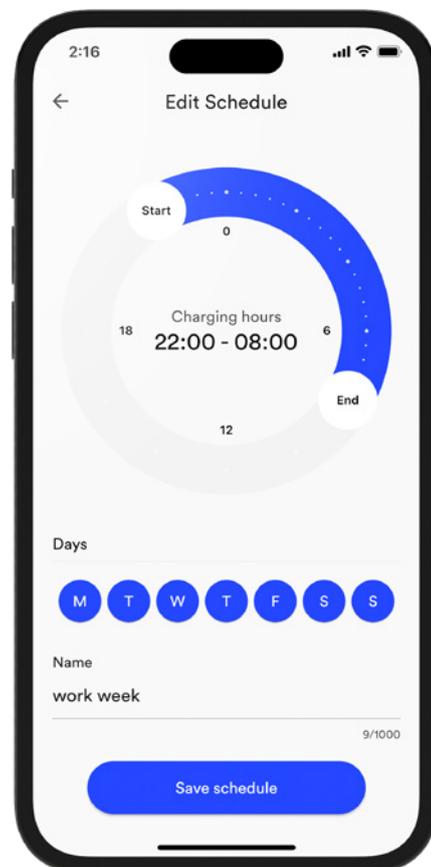
Figure 11: Custom schedule.

Figure 12: Customisation dial.

3. It is possible to run solar and full power schedules on the same charge station.

   This means that the charge station can advertise different charging rates depending on the time of day.

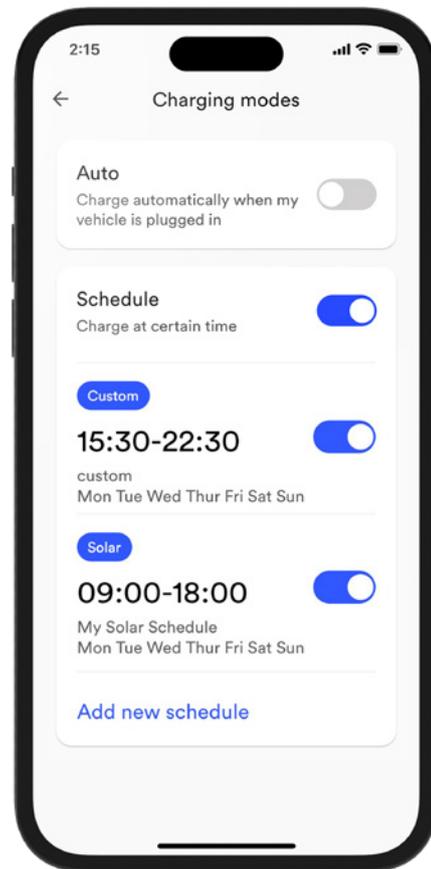   An example solar schedule is shown here.

Figure 13: Custom solar schedule.

4.1.2 SETTINGS & HISTORY

1. To enter this section, select the "Settings & History" icon lower right on the home screen.
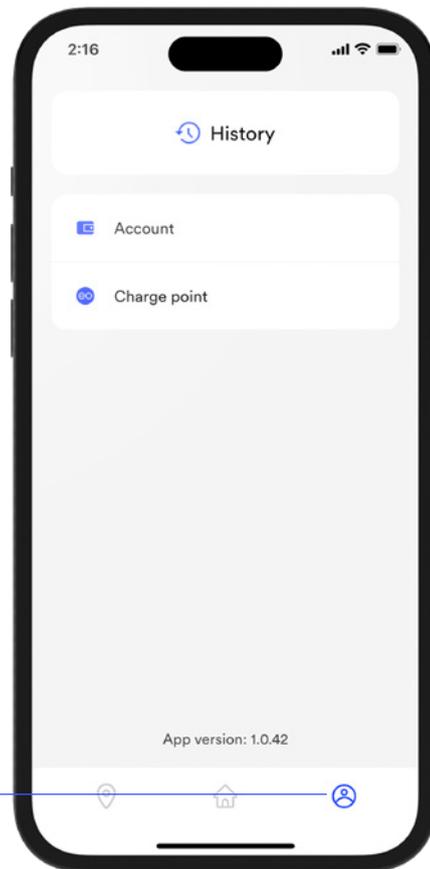

Figure 14: Settings.

2. Charge session history. Selecting "History" will provide access to historic charge session information. Charge sessions can be viewed by using one of two filters, "Latest" or "Month/Year".
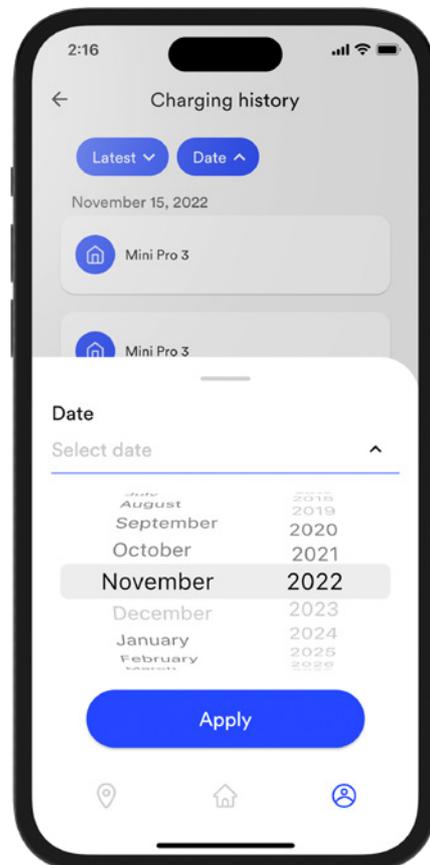

Figure 15: Session history.

12

4.1.3 ACCOUNT

1. Selecting "Account" provides you with the ability to edit your account details, change your app password or delete your account.
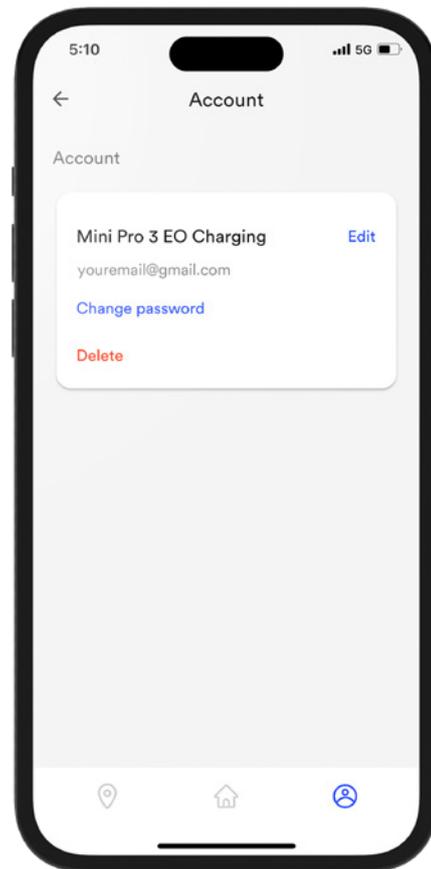

Figure 16: Account details.

4.1.3 CHARGE POINT

1. Selecting "Charge Point" provides you with the ability to change the charge point name given.

2. You are able to lock the charge point thereby disabling it from charging by selecting the padlock icon.

3. You can update the Wi-Fi connection. This is useful if your home router details have changed and need to get the charger back online.

4. Clicking "Diagnostics" will display details about the device such as the app version number, the charger serial number, online status and your mobile device type.
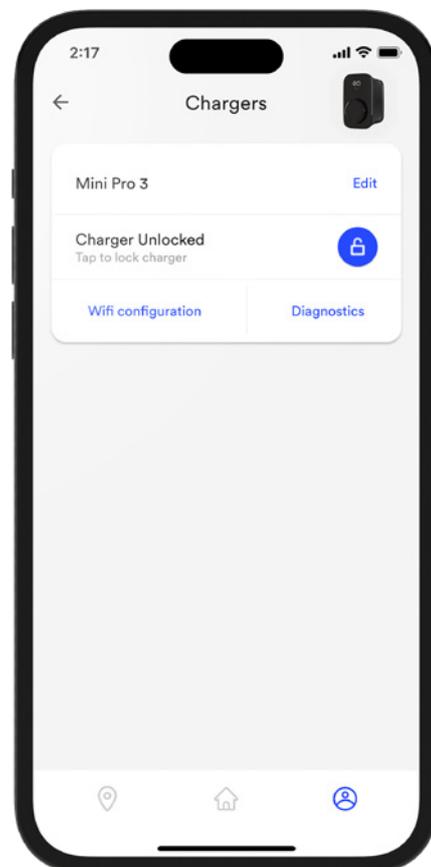

Figure 17: Charge point details.

5.0 Clearline EV Status Light

The Clearline EV charger has a status LED on its front face providing the user with its current status. Below describe the interpreted LED flash codes.

5.1 Charger Status Light on Power-up

The following LED sequence should be observed:

LED colour	State	Notes
Not illuminated	Power off	No power is available
LED solid white	Initialising	Initialising
LED pulses blue	Ready	The Clearline EV has started up successfully and is ready to charge

5.2 Normal Operation

LED colour	State	Notes
LED pulses blue	Ready	Ready to charge
LED pulses green	Cable is inserted	Clearline EV is communicating with the vehicle and trying to start a charging session
LED solid green	Charging	A charging session has started successfully (subject to randomised delay)
LED pulses blue	Cable is removed	Ready to charge
LED solid yellow	Paused	The Clearline EV has been put on pause
LED pulses red	Fault condition	A fault has occurred

6.0 Technical Support

All technical documentation is published on the Viridian Solar website at:

https://www.viridiansolar.co.uk

The Support team can be reached at:

Email: support@viridiansolar.co.uk

Phone: +44 (0) 1480 839 865

(i) This document contains information that is subject to change without notice.

The latest version of this publication can be downloaded at:
https://www.viridiansolar.com/assets/ClearlineEV-App-User-Guide.pdf

(i) Disclaimer: No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including, but not limited to, copying, recording, retrieving data, or computer networks without the written permission of Viridian Solar.

Clearline
EV

Viridian Solar
Atlas Building, 68 Stirling Way
Papworth, Cambridge. UK
CB23 3GY
+44 1480 839 865
www.viridiansolar.com