DURACELL® ENERGY

Consumer's App Guide

V4.2

App Guide

DURACELL® ENERGY

Get the App!

Contents

1. **Select Language** 3
2. **Live Usage** 4
3. **Battery Status Modes** 5
4. **Power Cut Mode** 6
   - 4.1. How Power Cut Mode Works 6
   - 4.2. Steps to Enable Power Cut Mode 6
5. **App Modes** 7
6. **Variable Rate Tariff (VRT) Algorithm** 8
7. **Energy Summary** 11
8. **Energy Insights** 12
9. **System Overview** 13
10. **Scheduled Control** 14
    - 10.1. How to Set or Edit a Schedule 15
11. **Controlling your EV Charger from the APP** 16
    - 11.1. EV Mode Definitions & Uses 17
    - 11.2. How to Use & Control Charging Sessions 19
12. **Customer Account Management** 20
13. **Edit Inverter Details** 22
14. **Edit EV Charger Details** 23
15. **3-Phase Integration** 24

Please scan this QR code to find this document in alternative languages.

1. Select Language

The app works in Dutch and English.
Choose your language here.

2. Live Usage

This is the live usage page. On this page you can view the live readings of your system.

EV bubbles: This bubble is for the DuraCharger. This is the only interactable bubble in the live monitor page. In this bubble, you can set different modes for the EV charger.

House bubble: This bubble shows you how much energy the home is consuming.

Grid bubble: This bubble shows you how much you are consuming from - or giving back to the grid. (Grid reading will display as 0 if actual figure is between +100 and -100.)

Return to the Live Usage Monitor from any screen

PV bubble: This bubble shows the PV readings. The readings should always be positive and should not contain negative readings. If readings are negative, contact customer support.

Battery bubble: This bubble shows how much the battery is consuming/ supplying the house and current battery percentage.

Power Cut Button: Initiates the Power Cut mode so is useful in the event of expected extreme weather etc. This mode will charge the battery up to 100% and hold it for 24 hours until it detects a power cut. When a power cut is detected, the battery will discharge to the critical loads of the house. If it doesn't detect a power cut during the 24-hour period, it returns to regular functionality.

Figure 1.

3. Battery Status Modes

One of four modes will display at the bottom of the home screen and indicates the current charging status of the battery.

- **Self:** Standard solar/battery operation.
- **Variable:** Your battery is operationg on a Variable Rate Tariff, charging with inexpensive energy and saving you money.
- **Grid:** Your battery is supporting the grid and earning you money. (Not yet available in Benelux nations)
- **Power Cut:** Your battery is in power cut mode, refer to 'Power Cut Button' description on p4.

Figure 2.

4. Power Cut Mode

4.1. How Power Cut Mode Works

Power Cut Mode ensures that your battery provides backup power during an outage. However, for this to work, your home must have a critical circuit setup by your installer that allows the battery to discharge and support essential household loads. If this is not in place, the battery will not provide power during an outage.

4.2. Steps to Enable Power Cut Mode

1. **Verify Your Critical Circuit**

- Ensure your installer has set up a dedicated critical load Distribution Board, servicing only the amount of power (A) allowed by the inverter. This information will be in either your Solis or the Dura-i manual.
- These circuits should include essential appliances (e.g., fridge, lights, Wi-Fi router).
- Critical Circuits are suitable for low energy-consuming appliances and not your whole home. We do not recommend this set-up as a back-up for any life-support devices e.g. dialysis, pacemakers, refrigerated medication etc.

2. **Activate Power Cut Mode in the App**

- Go to **Live Usage > Power Cut Mode.**
- Tap **Enable Power Cut Mode.**
- The battery will charge to 100% and hold energy for 24 hours.

3. **What Happens During an Outage?**

- If a power cut is detected, the battery will automatically discharge to power the critical circuit.
- If no power cut occurs within 24 hours, the battery returns to normal operation.

	IMPORTANT	If you're unsure whether your home has a critical load circuit installed, contact your installer or Duracell Energy support before relying on Power Cut Mode.

5. App Modes

Click here to open the app menu

Figure 3.

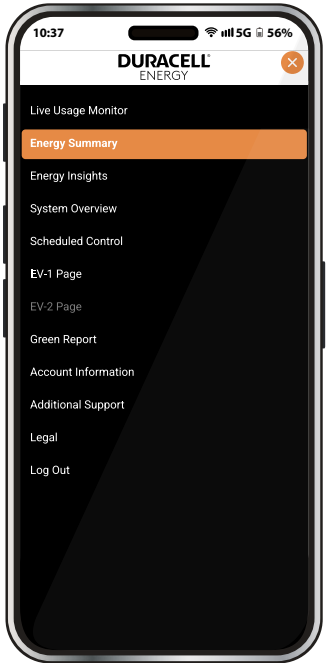


Figure 4.

These are the overviews of what each page demonstrates.

- Live Usage Monitor – This page will give you a live monitor of your system -**p4**.
- Energy Summary – This page will give you a historical overview of your consumption - **p11**.
- System Overview – This page will give you a historical system overview -**p13**
- Green Report – This page will give you a calculated green report of the previous month.
- Additional Support – This page will provide you additional information.
- Account Information – This page will provide your User Account information as well as the option to opt into Variable Rate Tariffs.Variable Rate Tariff (VRT) Algorithm
- Legal - This page gives legal information

6. Variable Rate Tariff (VRT) Algorithm

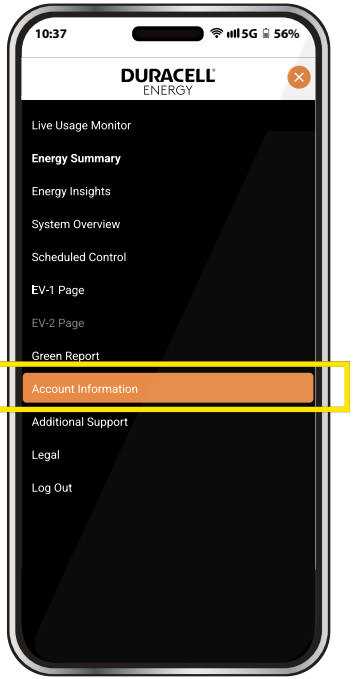


Figure 5.

The **Variable Rate Tariff (VRT) Algorithm** allows homeowners to link their energy system to a **dynamic electricity tariff** (such as Octopus Agile) to optimise charging and discharging based on real-time energy pricing.

Accessing the VRT Algorithm Settings:

1. Open the App Menu (**Figure 1, p4**)
2. Click on **Account Information**.
3. Tap on **Variable Rate Tariff Algorithm** to view your current tariff details. (**Figure 6**)

Understanding the VRT Settings:

The VRT settings page displays the following information:

- **Tariff:** The dynamic tariff plan currently selected (e.g., Octopus Agile).
- **Region:** The electricity supply region (e.g., South Eastern England).
- **City/Town:** The user's registered location (e.g., Sussex).

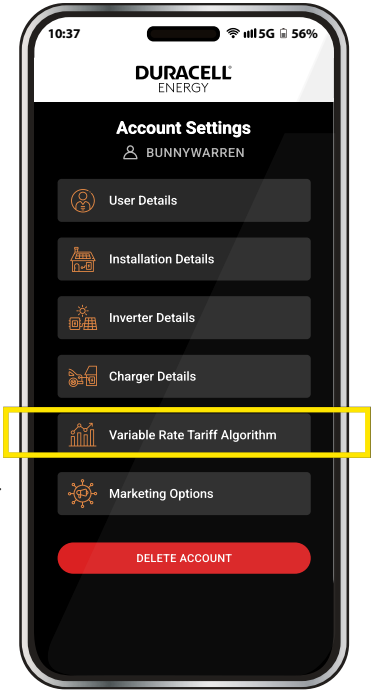


Figure 6.

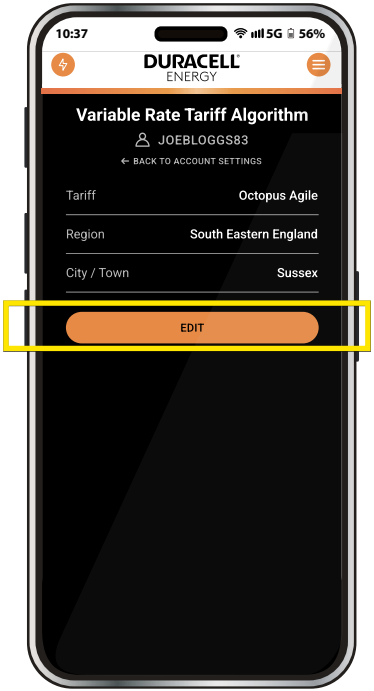


Figure 7.

Editing Your Tariff Details:

1. Tap **EDIT** on the VRT settings page.
2. You will see dropdown menus for:
   - **Tariff Selection** – Choose from available tariffs.
   - **Region** – Select your electricity supply region.
   - **City/Town** – Input your location.
3. Tap **UPDATE** to save your changes or **CANCEL** to discard them.

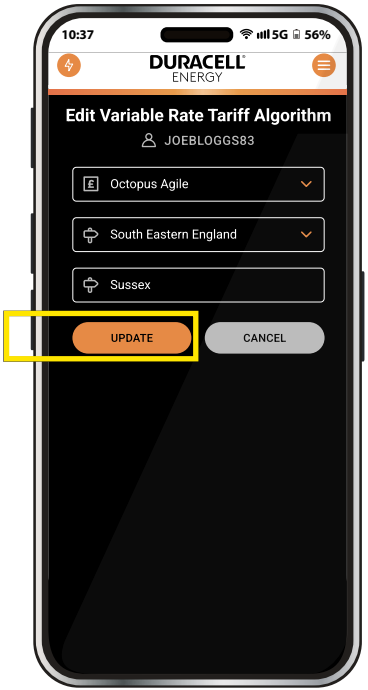


Figure 8.

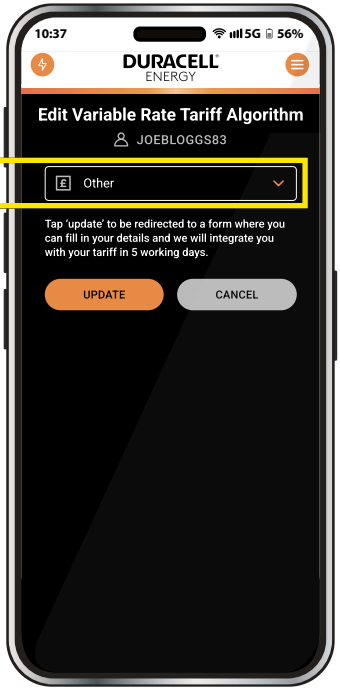


Figure 9.

Adding a New Tariff Provider:

If your tariff provider is not listed:

1. Select **Other** from the **Tariff** dropdown menu.
2. A message will appear explaining that you will be redirected to a form.
3. Tap **UPDATE** to proceed.
4. Fill out the form with your tariff details.
5. Your tariff will be integrated within **5 working days.**

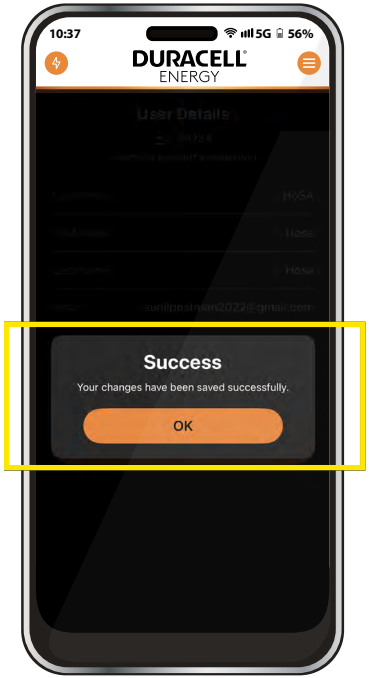


Figure 10.

Additional Notes:

- The app will use the selected tariff data to adjust charging and discharging patterns automatically.
- Users can update their tariff settings anytime via the **Account Settings** page.
- Selecting the correct **Region and City/Town** ensures accurate tariff application.

7. Energy Summary

Click on the 'i' icon for an explanation of the readings on this screen.

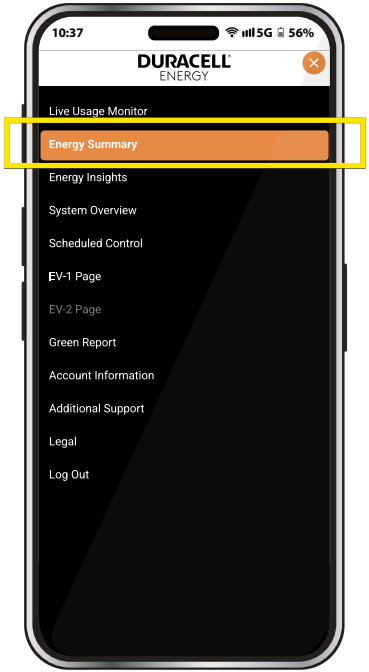


Figure 11.

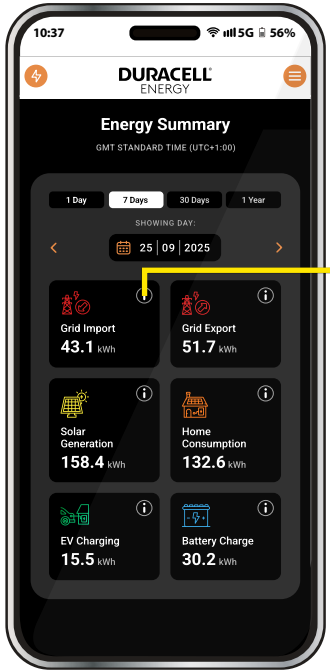


Figure 12.

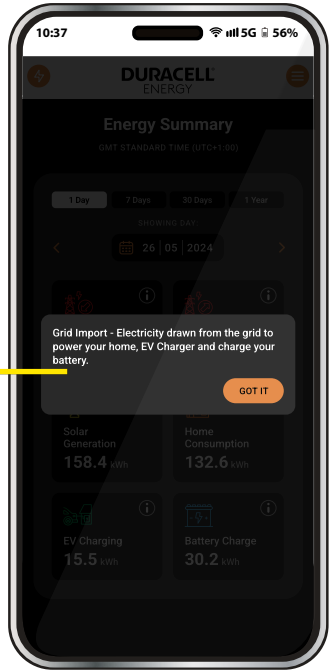


Figure 13.

8. Energy Insights

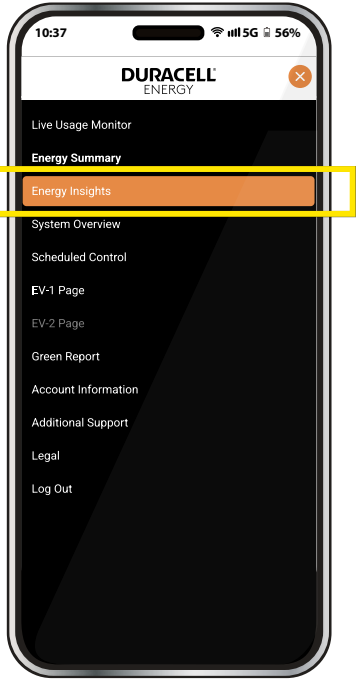


Figure 14.

Figure 15.

Figure 16.

The energy summary is a historic report of your total system energy summary breakdown. This is split up into different colors highlighting the different energy sources.

Grid
Solar
Battery
EV Charger
Home

You change the dates from which to see your total energy summary breakdown using the yellow dropdown above. Furthermore, using the tabs on the top, you can see the weekly, monthly, and yearly energy usage breakdowns also. An example is shown on the next page.

9. System Overview

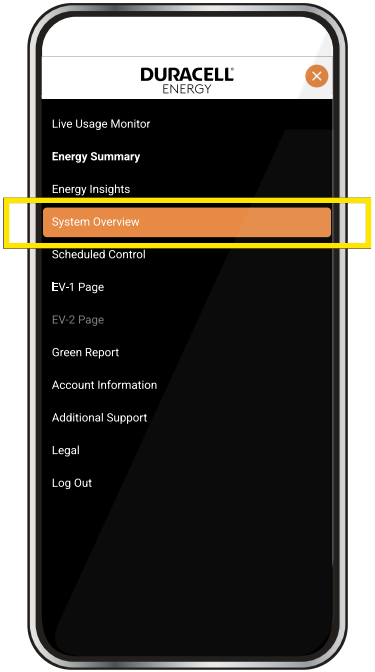


Figure 17.

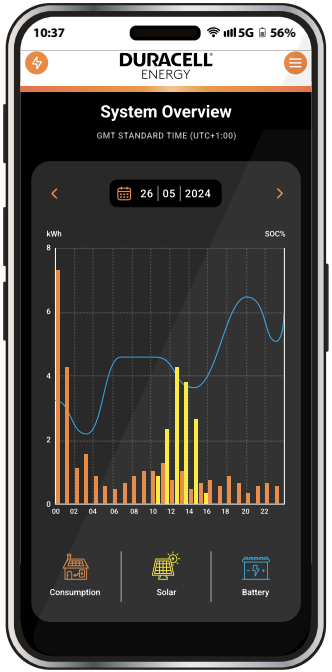


Figure 18.

Whilst the Energy Summary page displays the grid consumption, System Overview outlines only the house consumption.
There are three different readings on this page:

- The house consumption.
- The Solar generation.
- The State of Charge (SOC) of the battery.

You can change the dates displayed in your System Overview breakdown using the calendar dropdown at the top of the page.

10. Scheduled Control

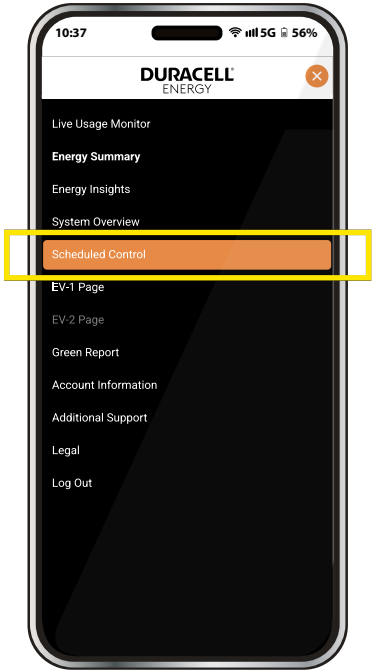


Figure 19.

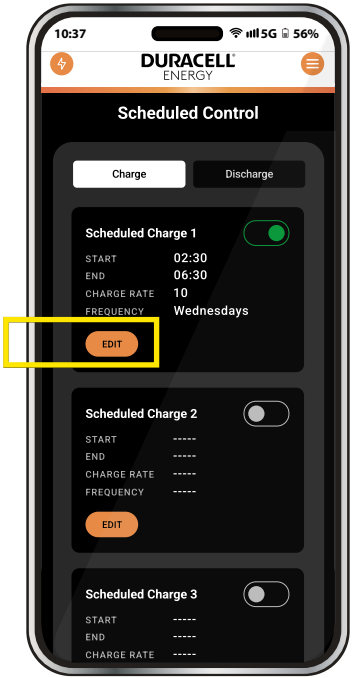


Figure 20.

The **Scheduled Control** feature allows homeowners to set charging and discharging schedules for their batteries. Users can create up to **three Charging Schedules** and **three Discharging Schedules**, each with customisable settings.

Customisable Settings for Each Schedule:

- **Status:** Toggle the switch to enable or disable a scheduled charge or discharge.
- **Start Time:** Set the time when the schedule should begin.
- **End Time:** Set the time when the schedule should stop.
- **Charge Rate (W):** Users can enter any charge rate they prefer, but the system will automatically limit it based on the inverter's maximum capacity.
- **Frequency:** Choose when the schedule should run.

Options include:

- **Everyday**
- **Weekdays** (Monday – Friday)
- **Weekends** (Saturday & Sunday)
- **Specific Days** (Monday, Tuesday, Wednesday, etc.)

10.1. How to Set or Edit a Schedule

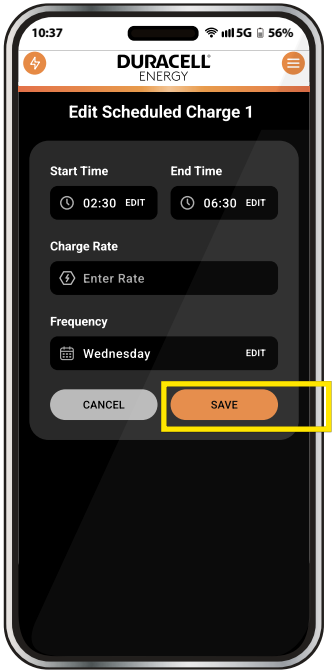


Figure 21.

Open the Scheduled Control page in the app.

Figure 20:

Choose a **Charging or Discharging Schedule** to configure.

Tap **EDIT** to modify the schedule.

Figure 21:

Set the Start and End Time using the time selector.

Enter the Charge Rate (W) within the allowed range.

Select the Frequency (days when this schedule should apply).

Tap **SAVE** to confirm the settings.

Figure 22:

A confirmation message will appear—tap **SAVE** again to finalise, or **CANCEL** to discard changes.

Additional Notes:

- Users can create multiple schedules to optimise energy usage.
- Scheduled charging ensures that batteries charge at preferred times, while scheduled discharging allows for controlled energy consumption or selling energy back to the grid.
- The **toggle switch** must be turned **ON** for a schedule to take effect.

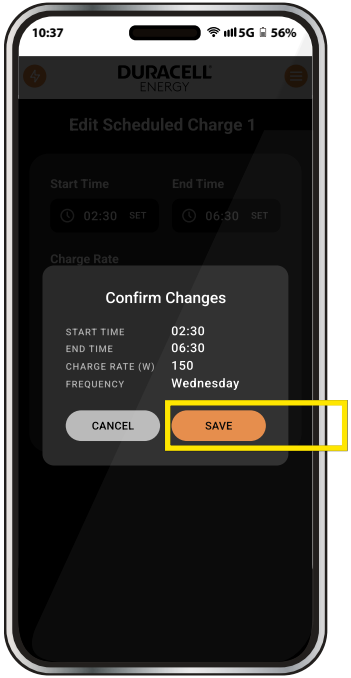


Figure 22.

11. Controlling your EV Charger from the APP

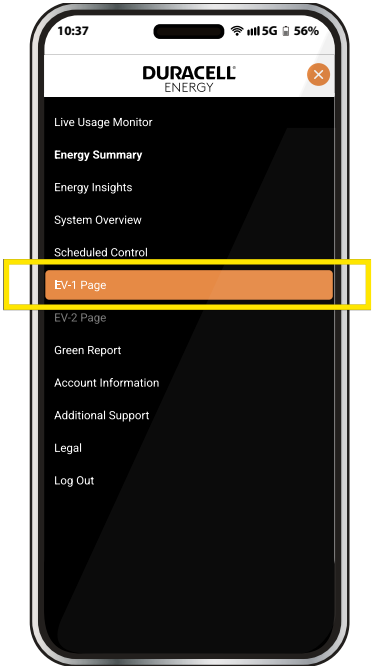


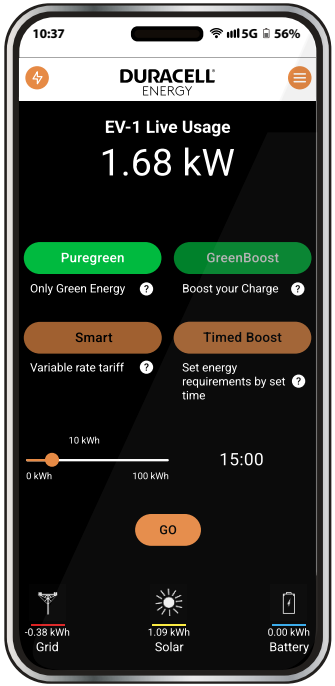
Figure 23.

Click here to control your charging sessions

For more detailed information on the EV Charger please see the dedicated DuraCharger Guide downloadable at the below link.

SCAN ME

11.1. EV Mode Definitions & Uses



Important: To use the EV Charger, tap the preferred mode and tap '**Go**'. If you want to stop the charger, tap '**Stop**' to end the session. If no modes are selected and you click '**Go**', Default Mode is activated.

Default

Simple Plug and Charge. To activate default mode deselect everything else and tap 'Go'.

It will draw from whatever power is available to charge the car at the maximum rate.

- Default cannot be combined with any other Modes.

PureGreen

When selected, this enables the end-user to charge their vehicle solely from excess Solar. Providing you have only this mode selected on the app and that you have at least 1.4kw of excess Solar available.

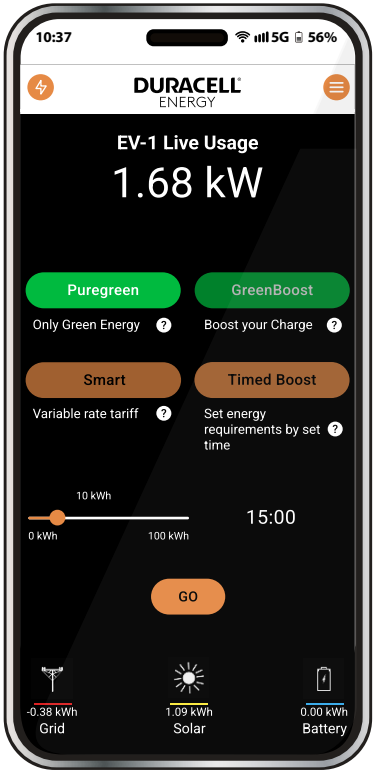


Figure 24.

Timed Boost

Set and end time for your session. When selected, this gives the end-user the ability to set how many kW of energy are to be released to the vehicle by a set time. Nominate the amount of kW with an end time for your charging session to be completed by.

Timed Boost + Smart

When these two are selected, you will receive all the benefits of the Timed Boost; this will choose the best times to complete most of its charge on the cheapest available rate.

To get the full benefit of this mode, the end-user must have;

- a Variable Rate Tariff (VRT)
- the correct tariff selected on the app (see **Consumer App Guide, Chapter 6. Variable Rate Tariff (VRT) Algorithm**)
- entered an end charge time with a required kW amount (on Timed Boost).

For example: a homeowner requires 10kWh of charge in the next 5 hours, and within the next 5 hours, there are two hours of cheaper energy. The system will charge at a rate of 5kW to reach 10kWh of energy within the cheap two hours based on their set tariff.

Remember that the max kw/h that this single phase charger can fulfil is 7kw!

Timed Boost + GreenBoost

When these two are selected, you will receive all the benefits of the Time Boost, however this will also use any excess solar available to complete the charge session set using less energy from the Grid.

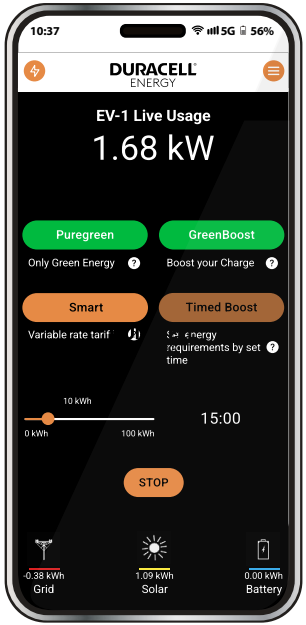
For example; I need 10 kWh of charge within 5 hours, it will average out those hours (so it will set the charge rate to 2kW per hour)

So, for the whole duration of the charging session it will only take upto 2kw of charge per hour, taking from excess as a priority and then making up any difference if required from the grid!

11.2. How to Use & Control Charging Sessions

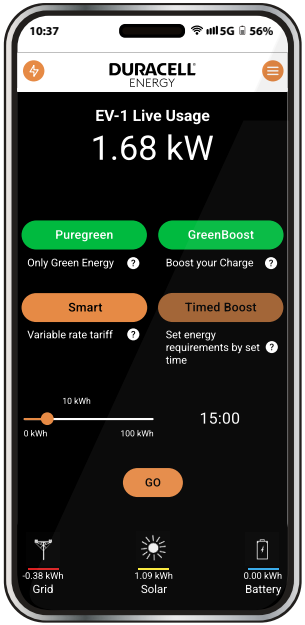
Select 'Start'

Figure 25.



Select Mode(s), Select 'Go'

Figure 26.



To End Charging, Select 'Stop'

Figure 27.

To change charging session mode whilst in another mode: Deselect current mode(s) Select desired new mode(s) Press 'Go'

Figure 28.

12. Customer Account Management

Edit: ■ Name ■ Username ■ Email address

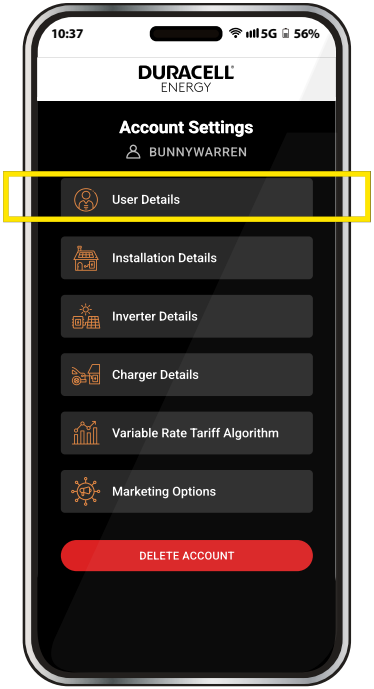


Figure 30.

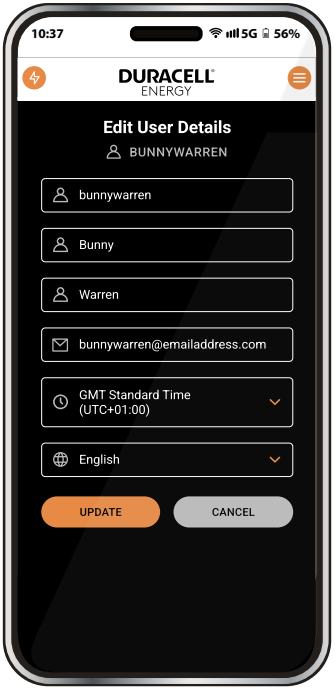


Figure 31.

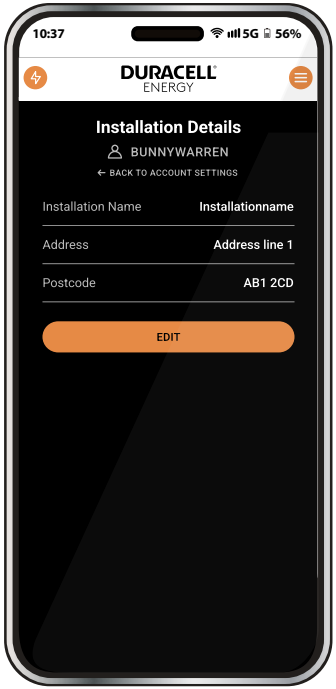


Figure 32.

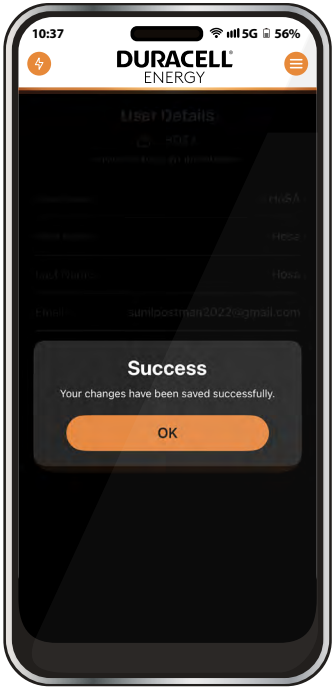


Figure 33.

Edit: ■ Installation Name ■ Installation Address

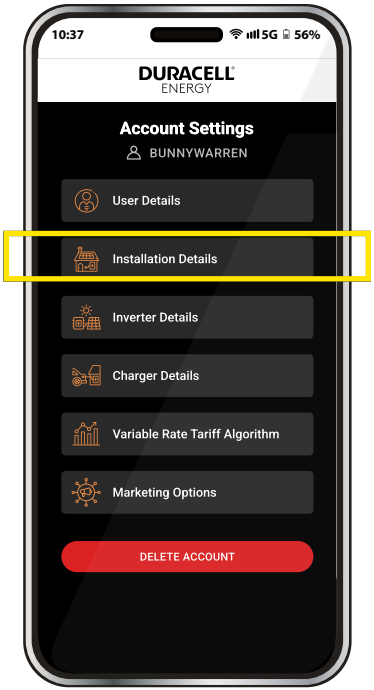


Figure 34.

Figure 35.

Figure 36.

13. Edit Inverter Details

Edit: ■ Inverter Serial Number

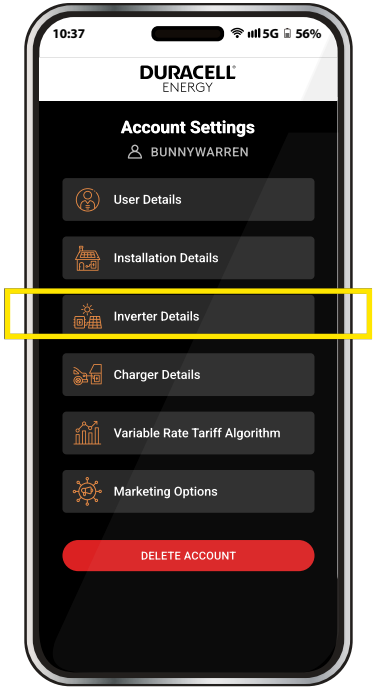


Figure 37.

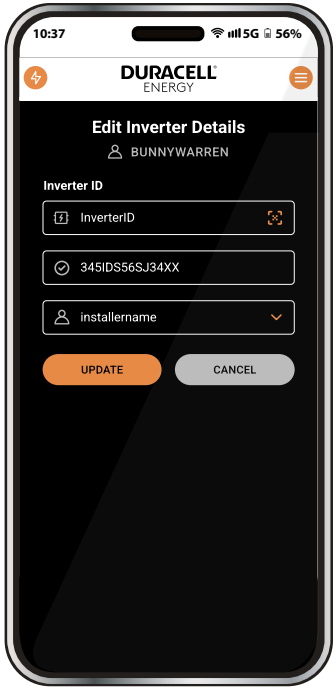


Figure 38.

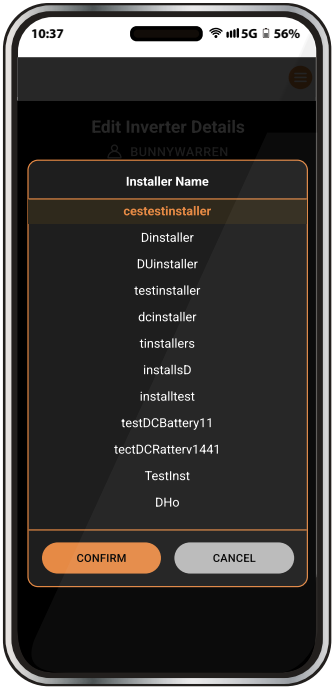


Figure 39.

14. Edit EV Charger Details

Edit: ■ EV charger name ■ EV charger serial number

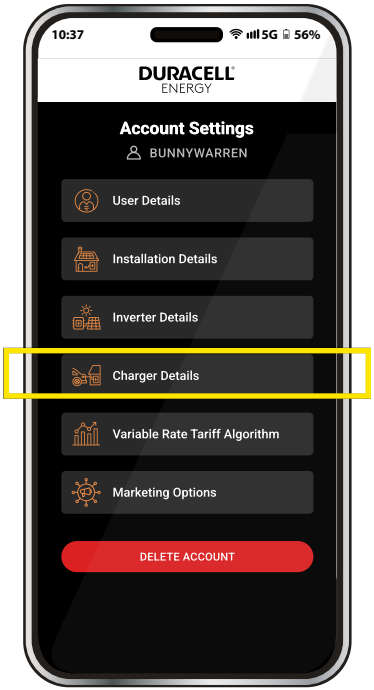


Figure 40.

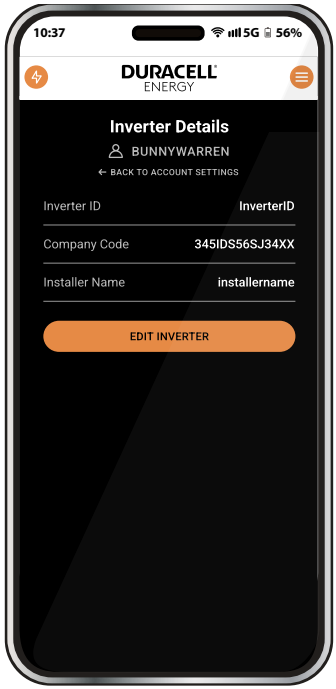


Figure 41.

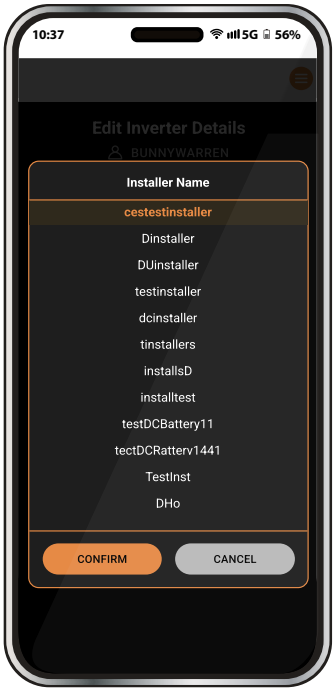


Figure 42.

15. 3-Phase Integration

For 3-phase systems click on the live usage icons which will then pop up with additional info

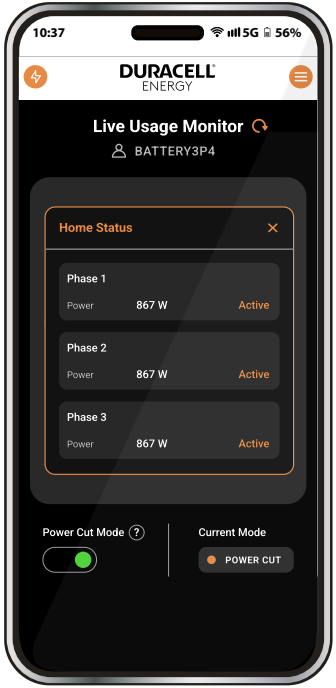
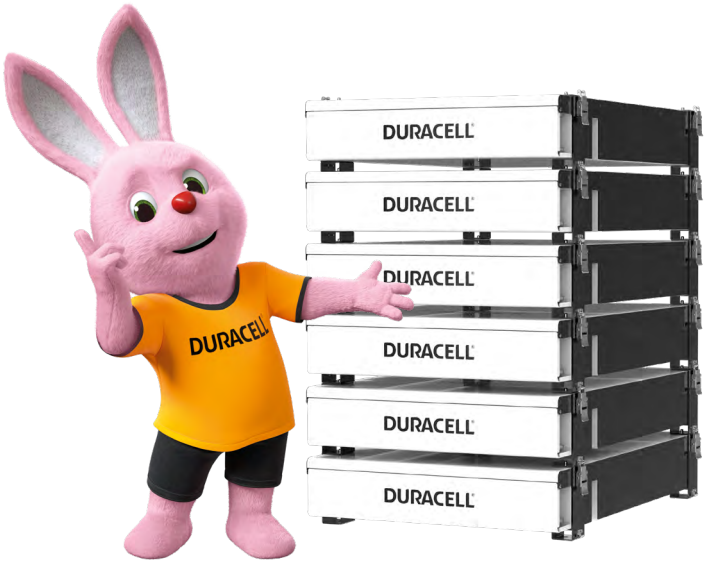


Figure 43. Home icon = Home Status

Figure 44. Grid icon = Grid status



Dura5 Home Battery

Wall-Mount or Stack

This 5.12kWh battery utilises the safest and highest performing chemistry; lithium iron phosphate.

The Dura5 boasts a 10 year warranty and 1C operation allowing you to charge each battery by 100A.

DURACELL®
ENERGY

Get in touch...

Sales: sales.uk@duracellenergy.com **Support:** support.uk@duracellenergy.com

01386 577845

www.duracellenergy.com

EU Authorised Representative address:

Comply Express Unipessoal Limitada,
StartUp Madeira,
EV141,
Campus da Penteada,
9020 105 Funchal,
Portugal

bsi ISO 9001 Quality Management Systems CERTIFIED