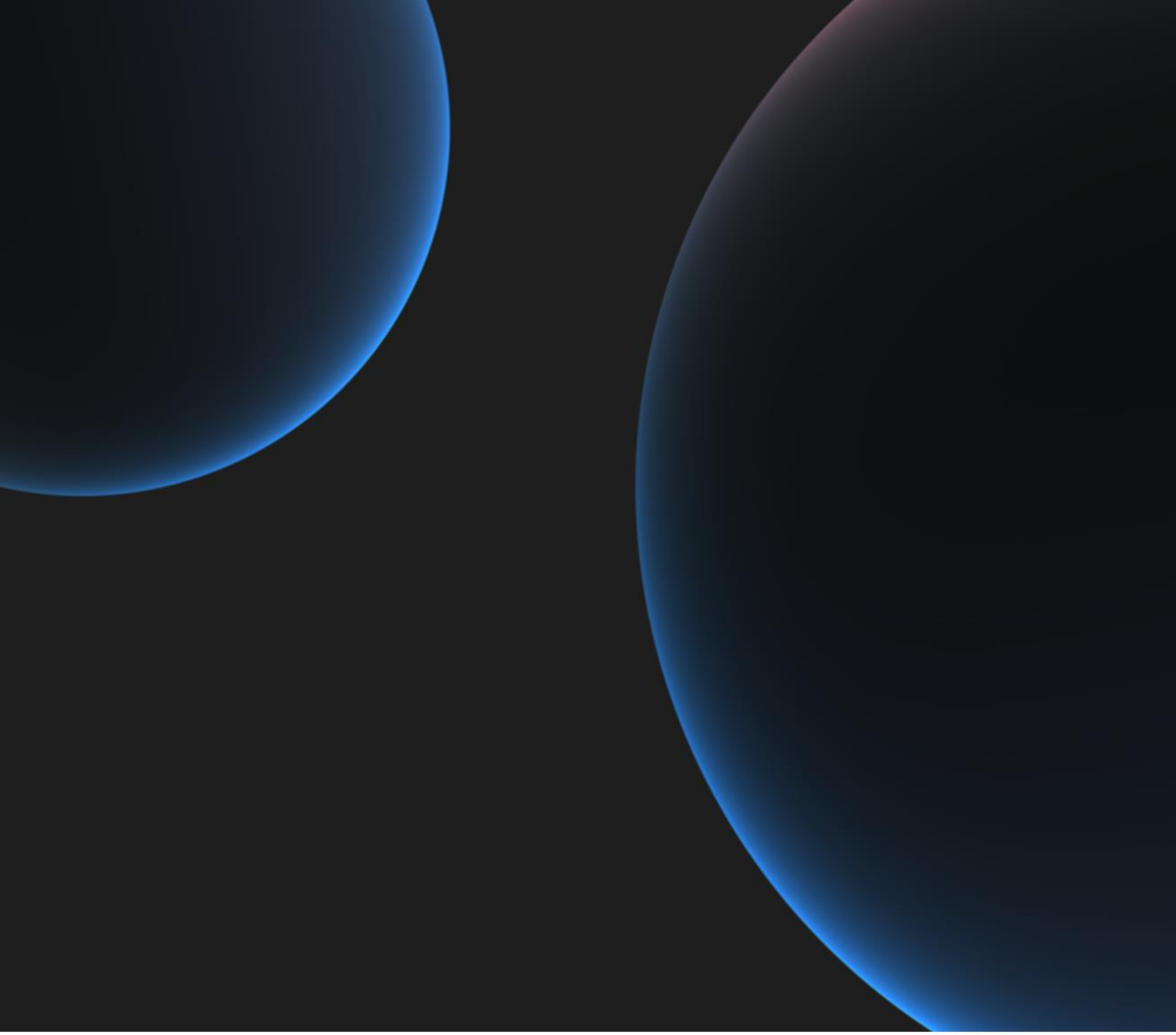

Univers EMS Application

User Manual – End User

Rev. 1.3.1

univers

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Version Control

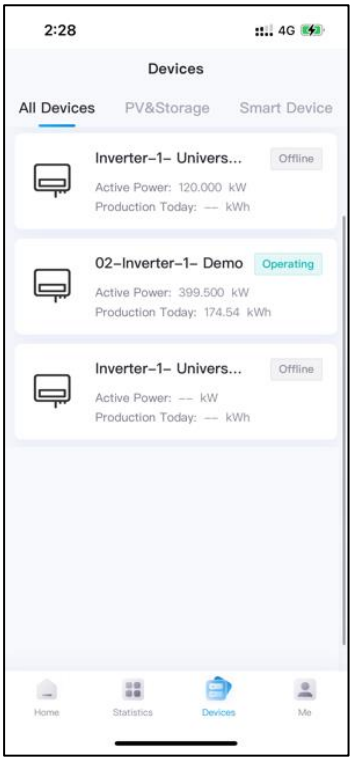
Rev.	Date	Description	Changed By	Approved By
1.2.4	07.FEB.2024	Accomodated updates from 240130 release (Application release v1.2.4)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.5	09.APR.2024	Accomodated updates from 240330 release (Application release v1.2.5)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.6	04.JUN.2024	Accomodated updates from 240530 release (Application release v1.2.6)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.9	30.AUG.2024	Accomodated updates from 240830 release (Application release v1.2.9)	Crystal Zhou; Claire Cui	Crystal Zhou
1.3.1	30.NOV.2024	Accommodated updates from 241130 release (Application release v1.3.1)	Crystal Zhou; Claire Cui	Crystal Zhou

Update Contents

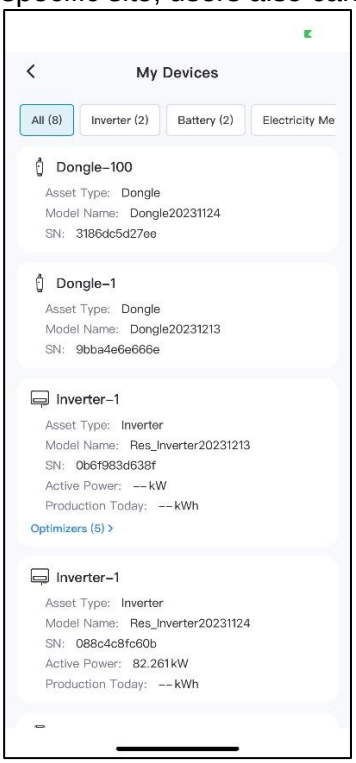
New Features

1. Implemented **Devices** list on **mobile app**.

- On Devices module, users can monitor all devices state and real-time data here.

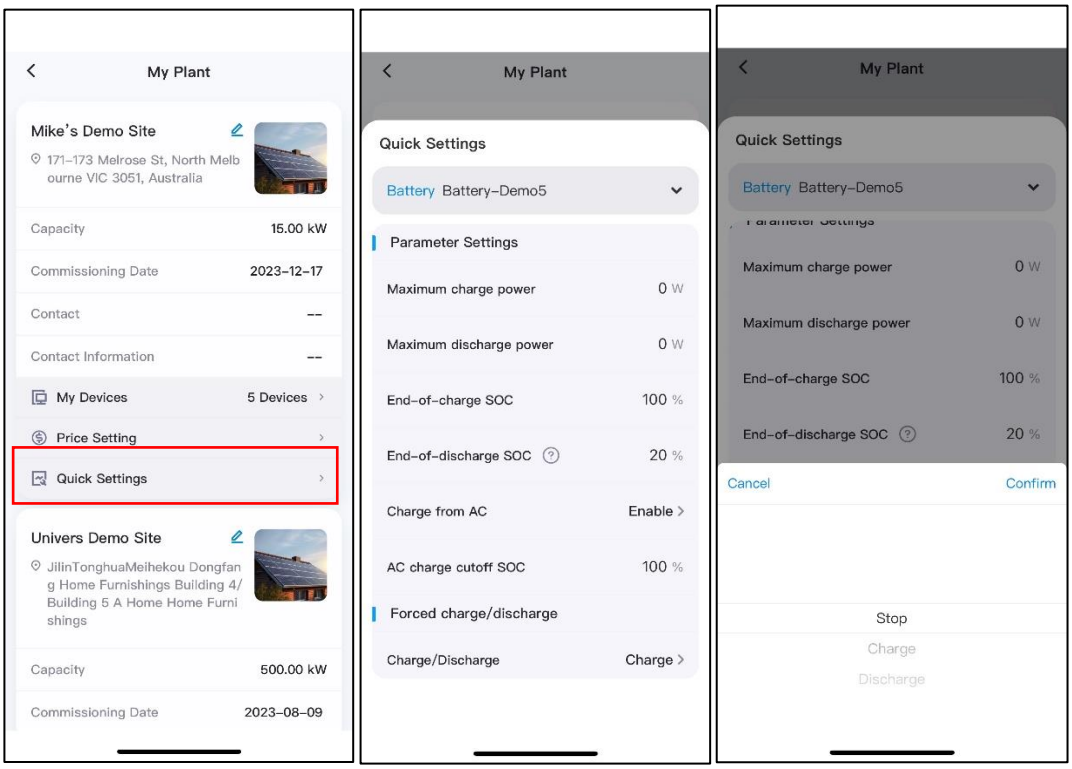


- On Me – My Plant – My Devices, users can monitor all the devices under the specific site, users also can filter the devices by selecting the device type.

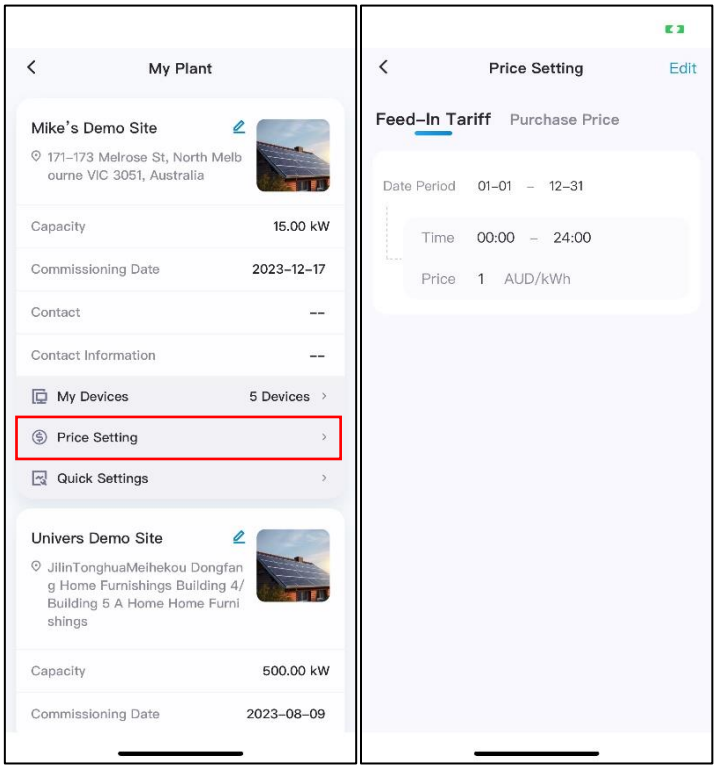


- Refer to Device Monitoring

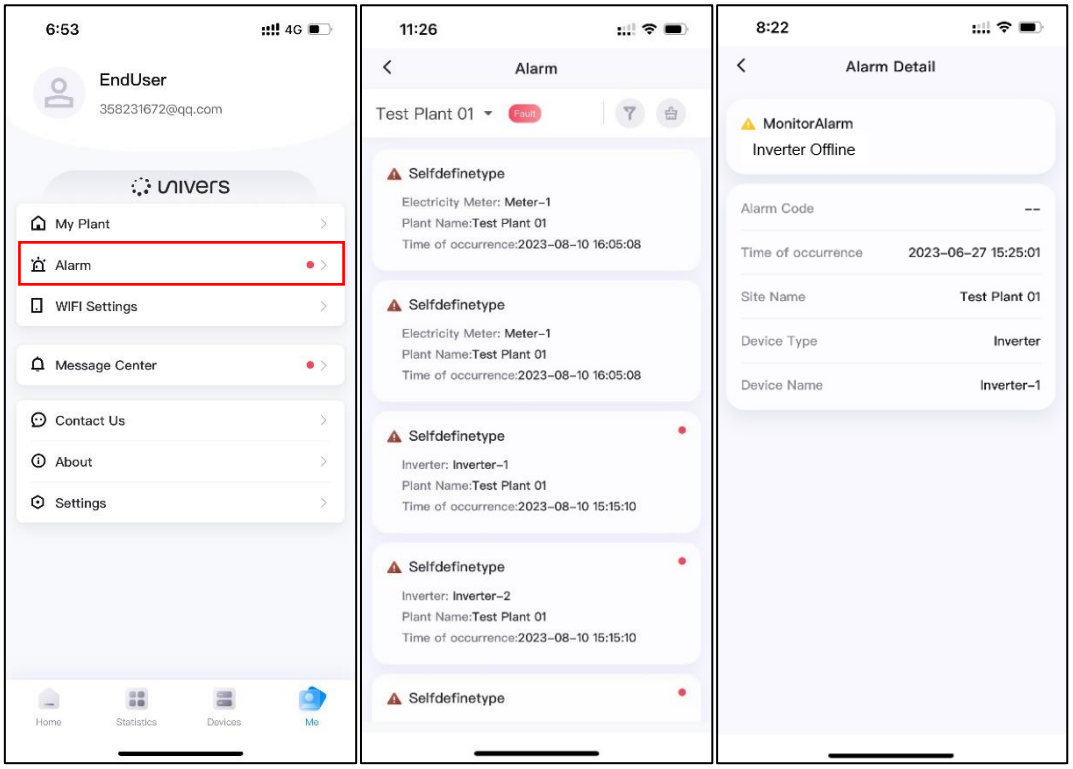
2. Implemented **device parameter setting** feature.
   - On Me – My Plant – Quick Setting, home users can control the device by editing device parameters like Battery TOU, charge and discharge limitation.
   - Device type available to control: Battery
   - Refer to Device Parameter Setting



3. Implemented **Price Setting** feature on **mobile app**.
   - On Me – My Plant – Price Setting, users can edit Feed-In Tariff and Purchase Price for the site
   - Refer to Plant Price Setting



4. Added **Alarm Detail** for alarms on **mobile app**.
   - On Me – Alarm, users can click each alarm to see the alarm details.
   - Refer to Alarm



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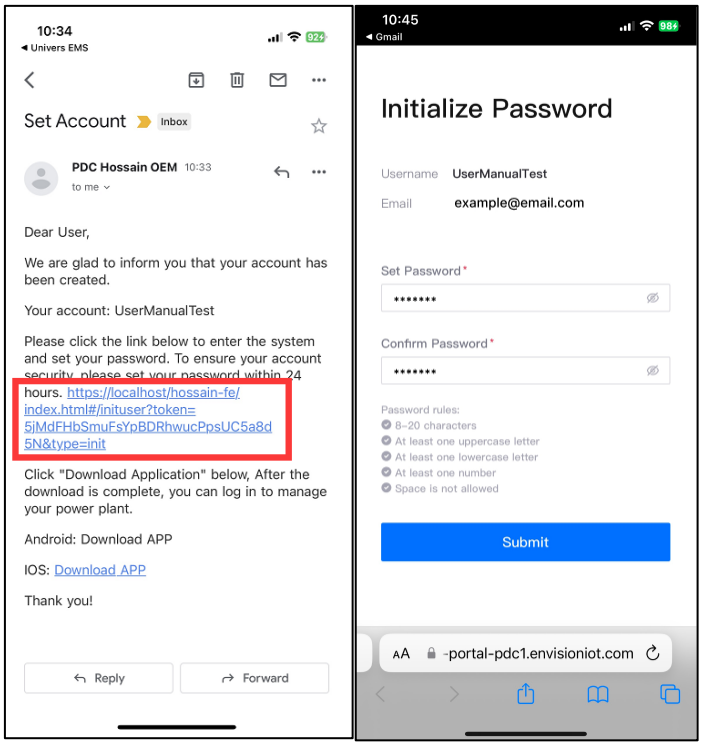
1 Mobile Application – End User

1.1 End User Account Setting

1. Installer or admin will collect your email address and username, and create an account based on the email address and username.
2. You will receive a registration email by that email address after installer or admin create for you.
3. Click link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

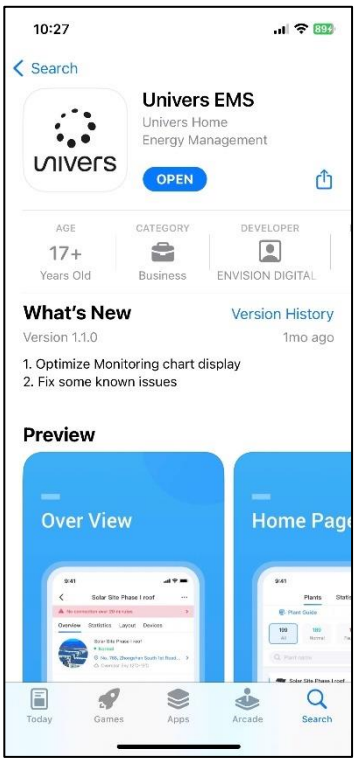


Note: If email is not in your inbox, please check your spam/junk email

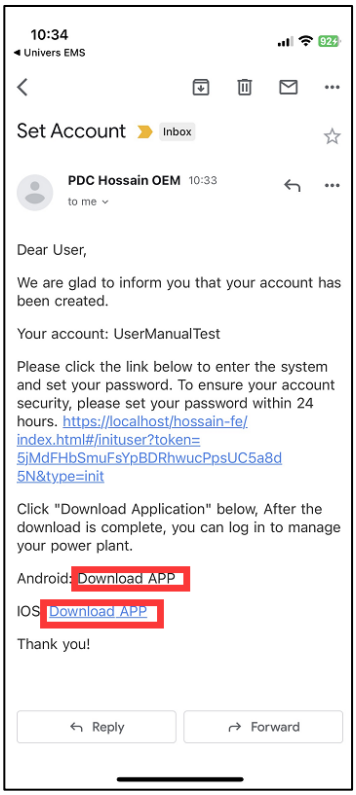
1.2 Login

1.2.1 Application Downloading

- You can download the mobile application Google Play for Android users or App Store for Apple users. The application name is Univers EMS as shown in below Figure.

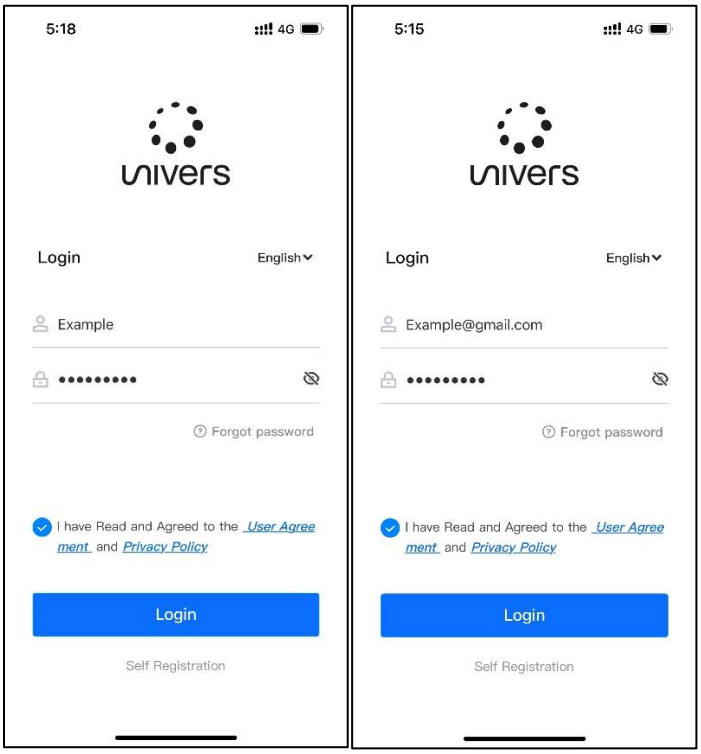


- You can also download from the link provided in the Set Account email.



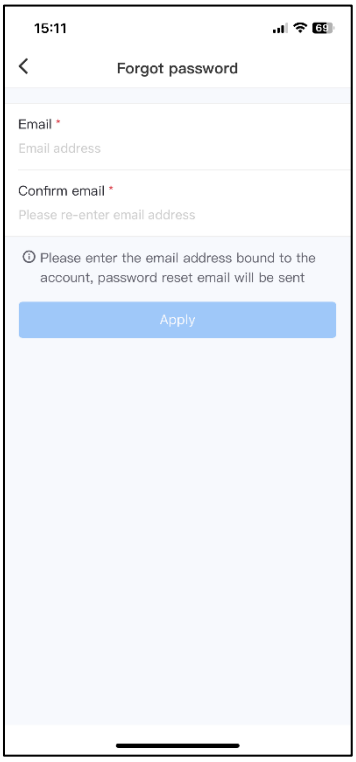
1.2.2 Application Login

1. Enter your **username** or **email address** and **password**.
2. Read and check the **[box]** to consent the User Agreement and Privacy Policy.
3. Press the **[Login]** button.



1.2.3 Forgot Password

If you forget the login password, click the ‘Forget password’ button to retrieve the password.


15:11
Forgot password
Email *
Email address
Confirm email *
Please re-enter email address
Please enter the email address bound to the account, password reset email will be sent
Apply

4. You will be directed to the Home page where you can monitor your home plants.

1.3Home

On the Home page, plant name, real-time weather data, operating status of the plant is displayed. If the you have multiple plants, you can switch between the plants.

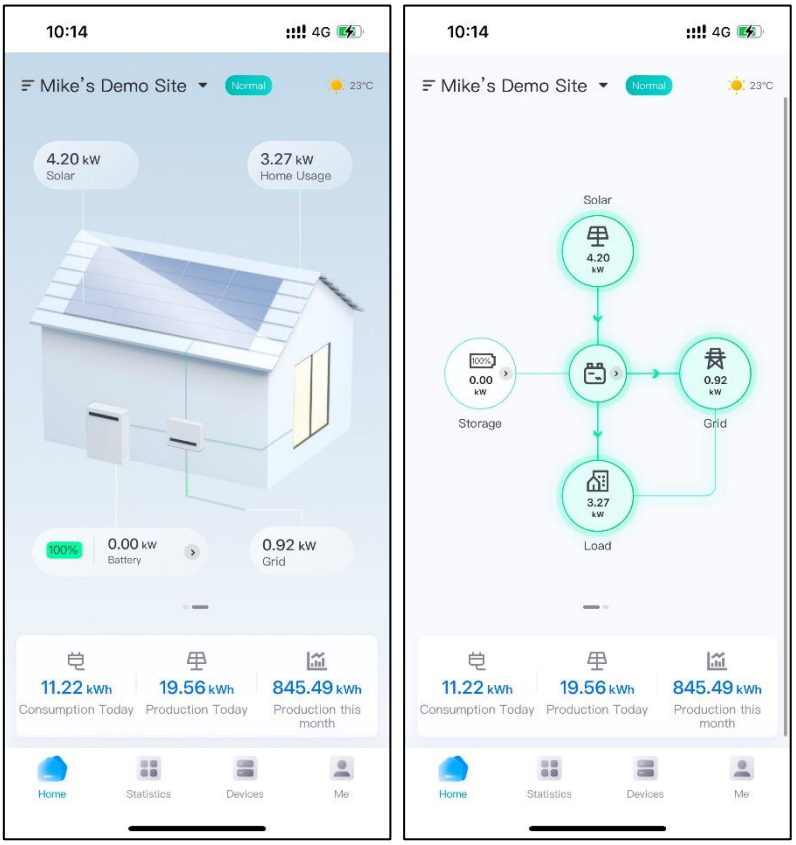
Power Energy Flow Diagram:

The end user can monitor the operating state in real time for the operation status of PV and energy storage at home. The user can switch between 2D and 3D energy flow diagrams, and switch between dark and light theme styles.

The energy flow diagram shows:

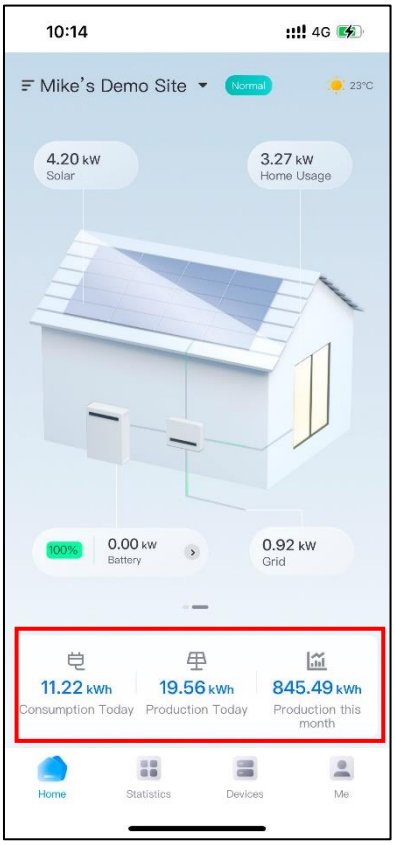
i. the real-time energy flow diagram of the plant.
ii. energy flow direction
iii. real-time operating power such as PV production power, storage charge and discharge power, houseload power, on-grid, and off-grid power data.
iv. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents fault.

- You could dropdown to refresh page and displayed data.



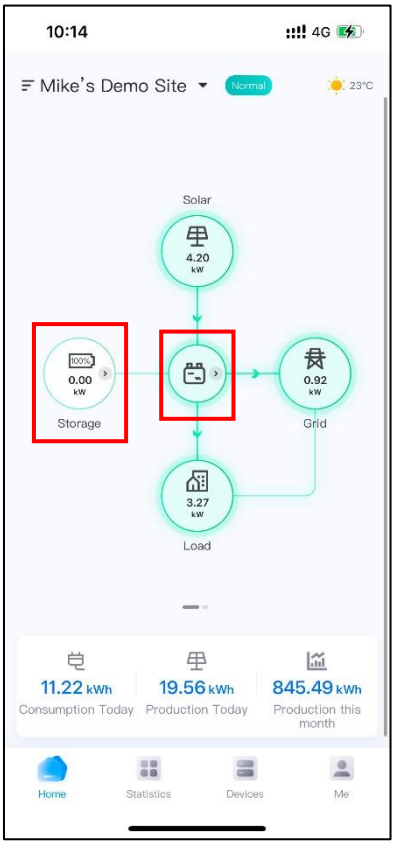
KPIs:

The KPI card on the home page will show the core indicators such as Consumption Today Production Today, Production MTD.

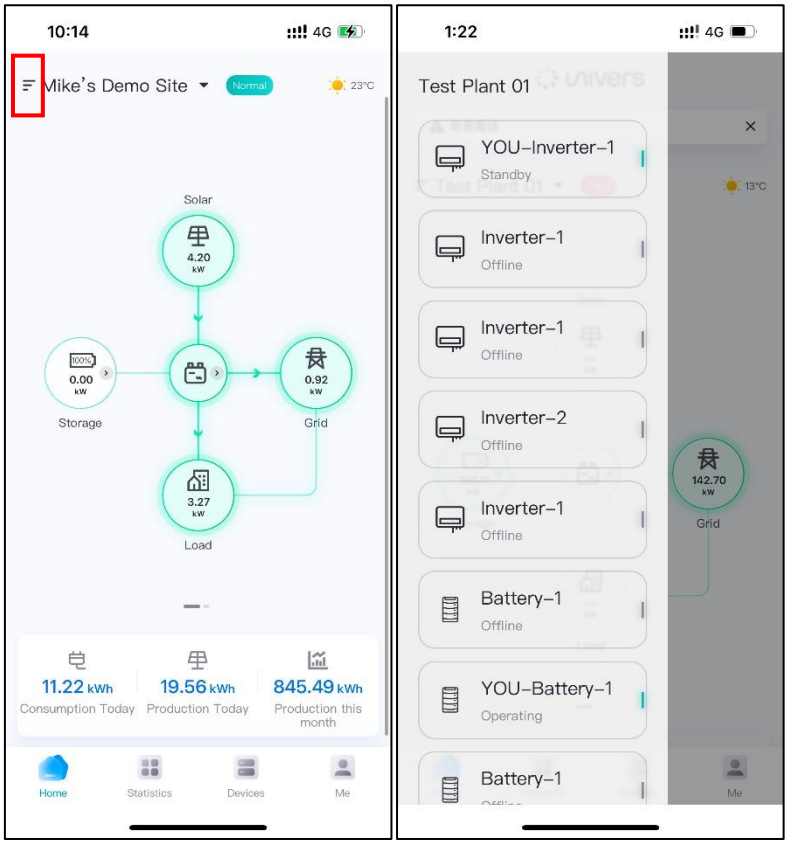


1.3.1 Device Monitoring

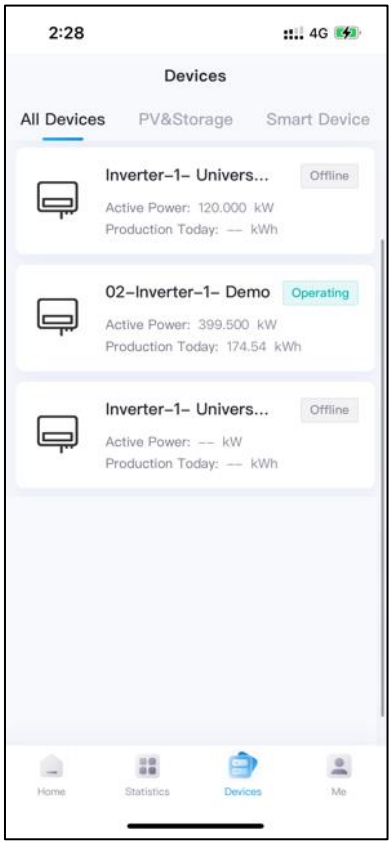
Entrance 1: From energy flow – Choose the plant first, and you can directly obtain the status of the device under this plant on the energy flow diagram, and drill down to view the real-time monitoring information of the device.



Entrance 2: On Home page, click on the list icon besides the plant name – A list of devices under the selected plants is displayed. By clicking a device on the Device List, you will be directed to the Device Details page.

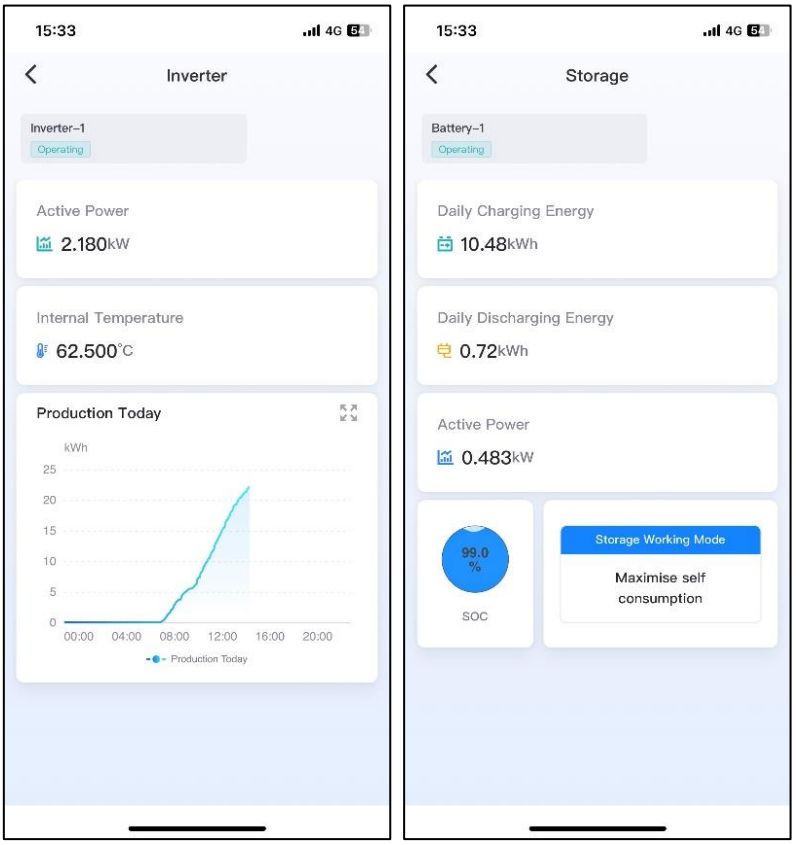


Entrance 3: On [Devices] tab – A list of devices under all the user's plants is displayed. Device's key real-time data is shown on each device card. You can also filter the devices according to the device type as shown below. By clicking a device on the Device List, you will be directed to the Device Details page.



1) Click the inverter node on the energy flow diagram, or click the inverter device on the device list, you can directly jump to the inverter monitoring page to show the inverter real-time operation status, active power, temperature, and production graph.

2) Click the storage node on the energy flow diagram, or click the battery device on the device list, to directly jump to the storage monitoring page to show the real-time operation status, charge and discharge energy, active power, SOC, and working mode of the storage.



1.4Plant Statistics

Plant statistics module provides overall and individual KPI data from the solar, house load and storage.

1.4.1 KPI Overview

KPI statistics are displayed according to the different time dimensions of day, month, year and life cycle, showing the following statistics metrics:

- Production: Total Home Site PV Production
- Consumption: Total Homehouse Electricity Consumption
- From Grid: Total Electricity Energy from Grid
- To Grid: Total Electricity Energy to Grid
- Battery Charge: Total Battery Charge Energy
- Battery Discharge: Total Battery DisCharge Energy
- Net Imported/Net Exported:
    a. If Energy from Grid is larger than Energy to Grid, Display Net Exported

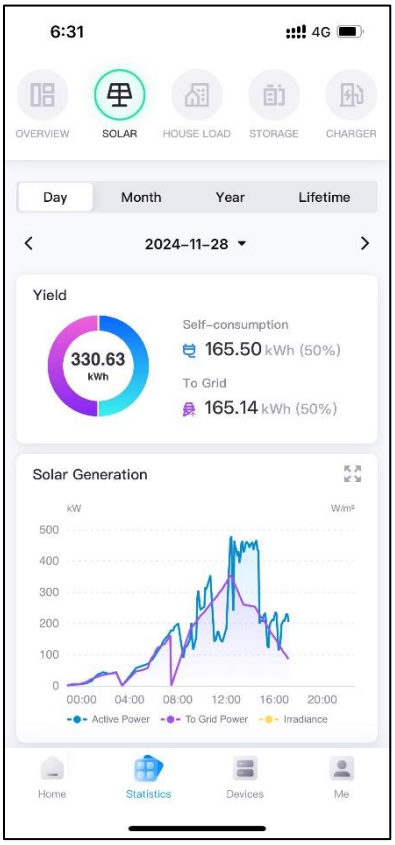
b. If Energy to Grid is larger than Energy from Grid, Display Net Imported

Different dimension metrics trend is also displayed in a bar chart format. Press on one of the graph to see the detailed break down of the bar chart. Production, From Grid and Charge are displayed on the positive axis. Consumption, To Grid and Discharge are displayed on the negative axis. Click on the legend to cancel the display of the corresponding indicator data and retain the indicator data you want to view.

1.4.2 Solar Statistics

Solar Statistics page shows yield, and solar production according to the daily, monthly, annual and life cycle time dimension.

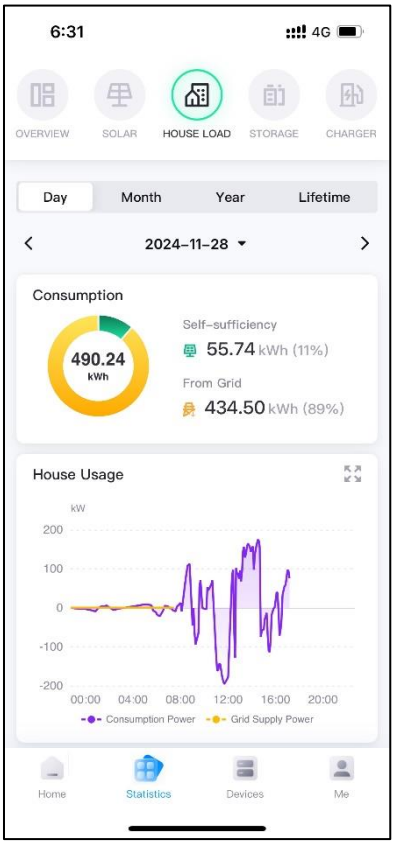
- Total Solar Production
- Total Self-consumption: Total Energy from PV production to Houseload Consumption and Battery Charge
- Total To Grid Energy: Total Energy from PV production to Grid



1.4.3 House Load Statistics

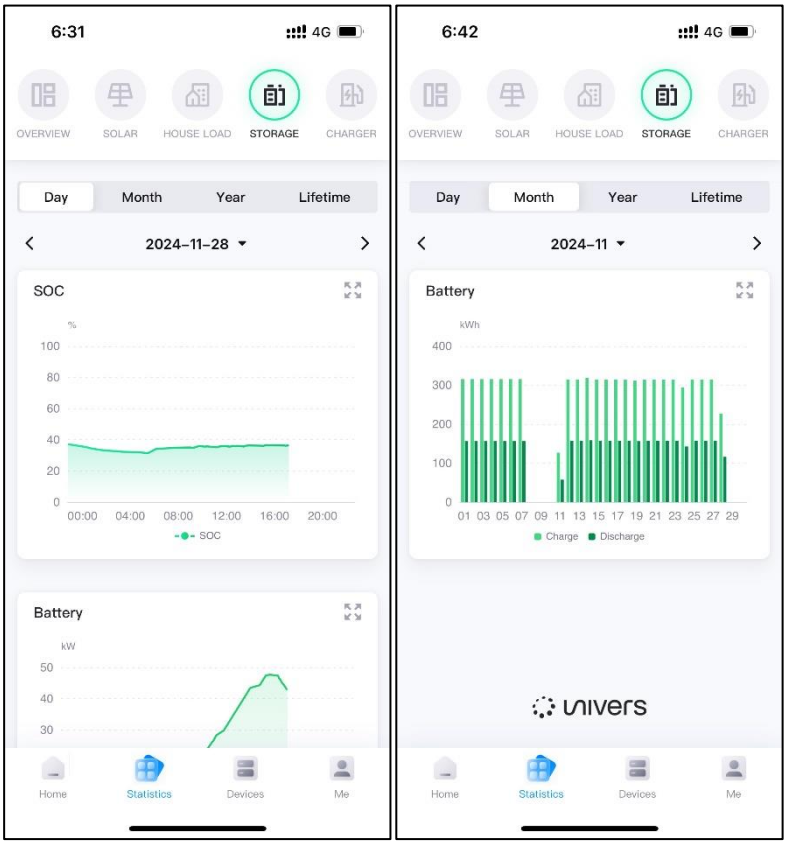
House Load Statistics page shows consumption, and house usage according to the daily, monthly, annual and life cycle time dimension.

- Total Houseload Consumption
- Total Self-sufficiency: Total Energy from PV production and Battery DisCharge to Houseload Consumption
- Total From Grid Energy: Total Energy from Grid production to Houseload Consumption



1.4.4 Storage Statistics

Storage page shows the energy storage charge and discharge power curve, and displays the total charge and discharge of energy storage according to the month, year, life cycle time dimension. The page also shows the SOC graph under day dimension.

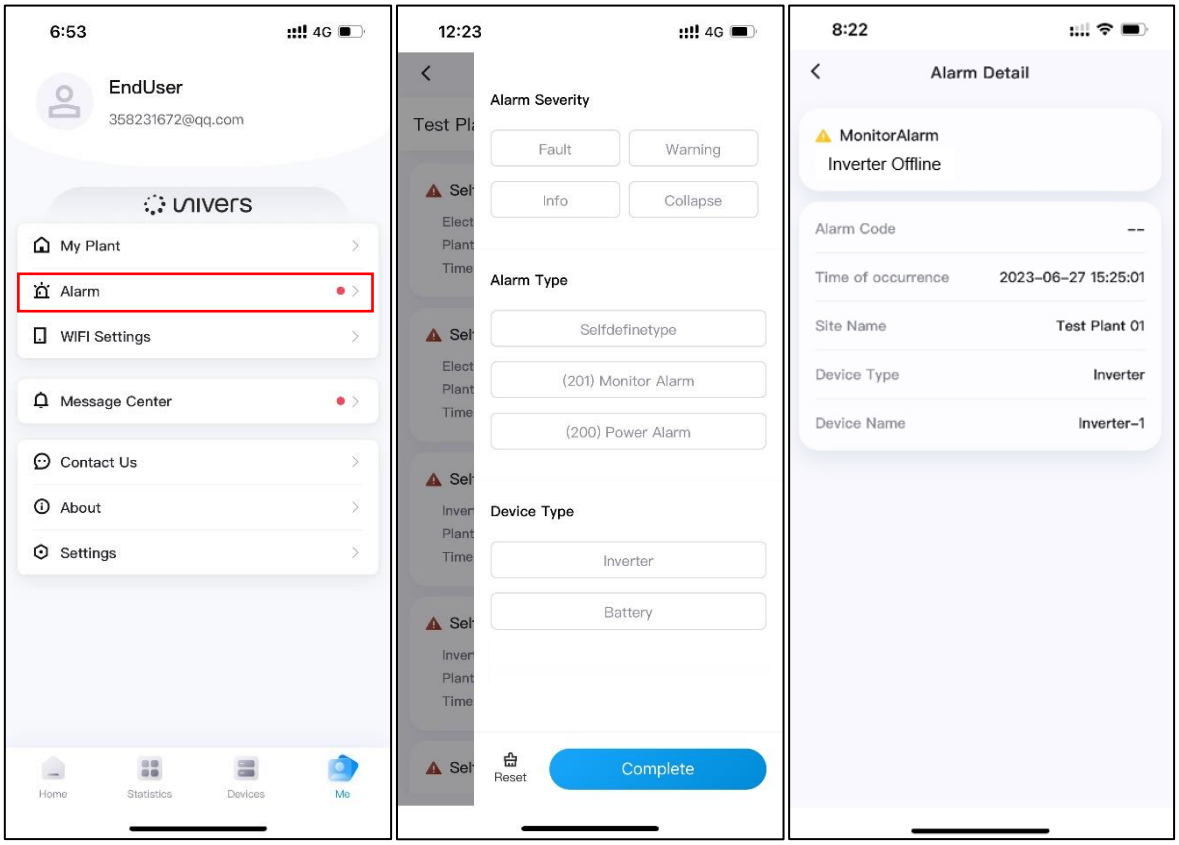


1.5 Alarm

On Me – Alarm, users can see active alarms under the plant selected. On each alarm card, it displays the alarm, device name, plant name, alarm type and the time of occurence of the alarm.

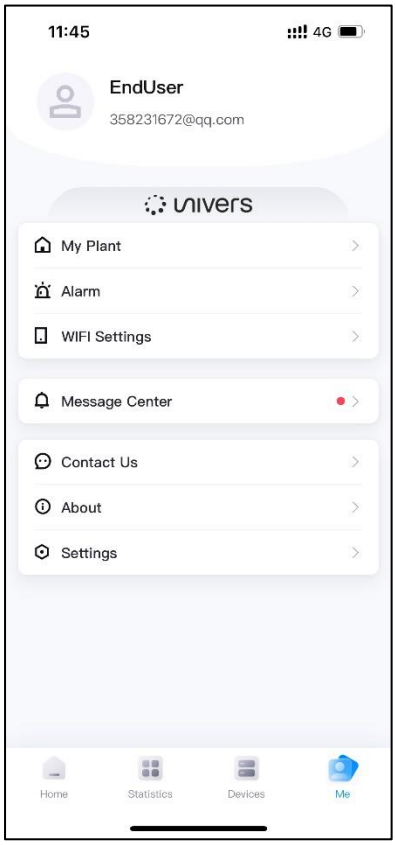
Users can sort them from according to the alarm severity, alarm type and/or device type.

Users can click each alarm to see the alarm details. Alarm code, time of occurrence, site name, device type and device name will be displayed on the alarm detail page.



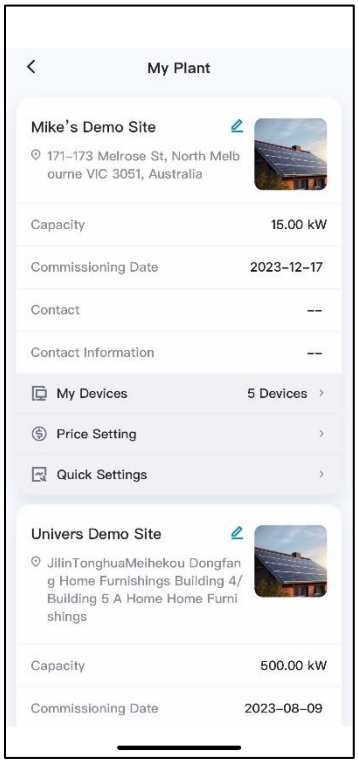
1.6 Account & System Management

“Me” menu allows user to configure account and system settings.



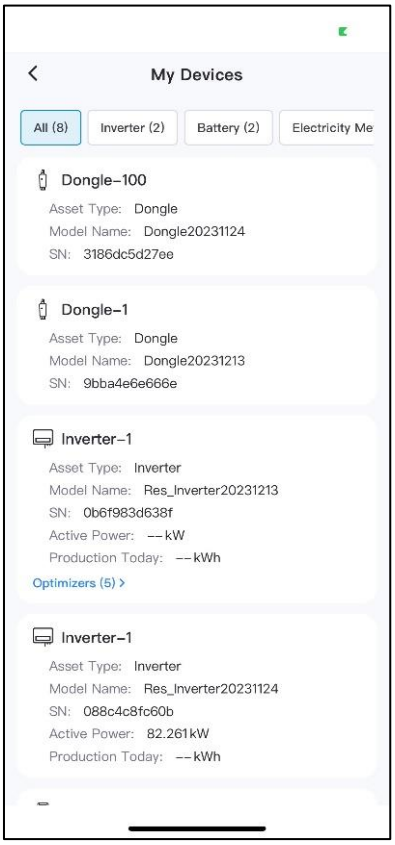
1.6.1 My Plant

The user can check the plant under his/her authority under My Plant. Each plant card displays the name, address, capacity, commissioning date and contact information of the plant. Under each plant, user can view the devices under the plant, set the price of the plant and set device parameter.



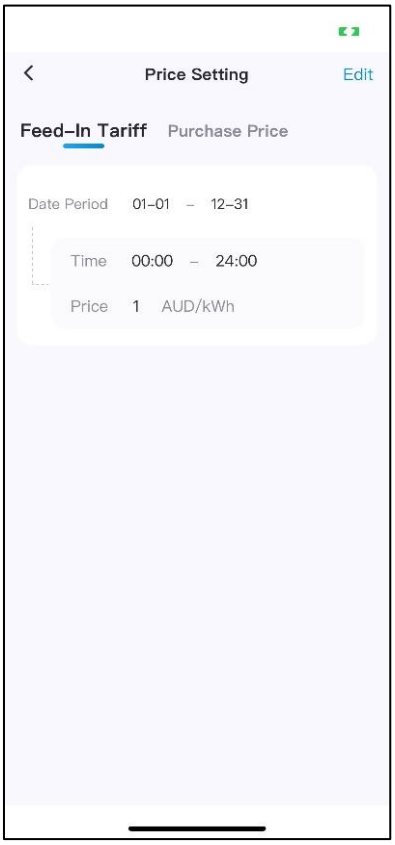
1.6.1.1 My Devices

Click on “My Devices” tab under a plant, users can monitor all the devices under the specific site, with basic attributes of the device. Users also can filter the devices by selecting the device type.



1.6.1.2 Plant Price Setting

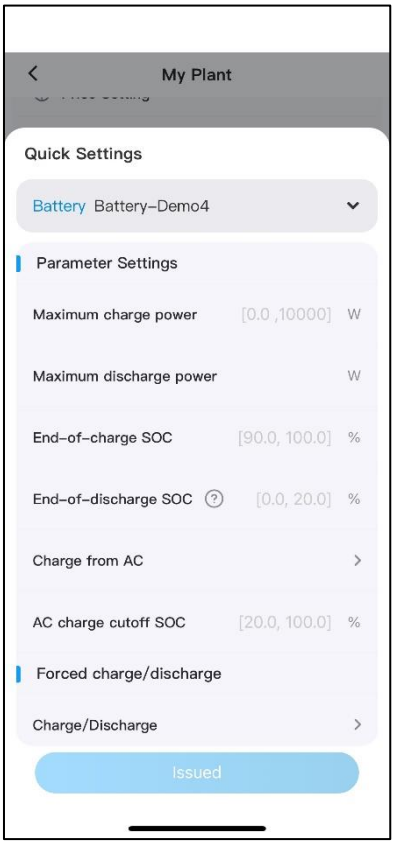
Click on “Price Setting” tab under a plant, users can can edit Feed-In Tariff and Purchase Price for the specific site.



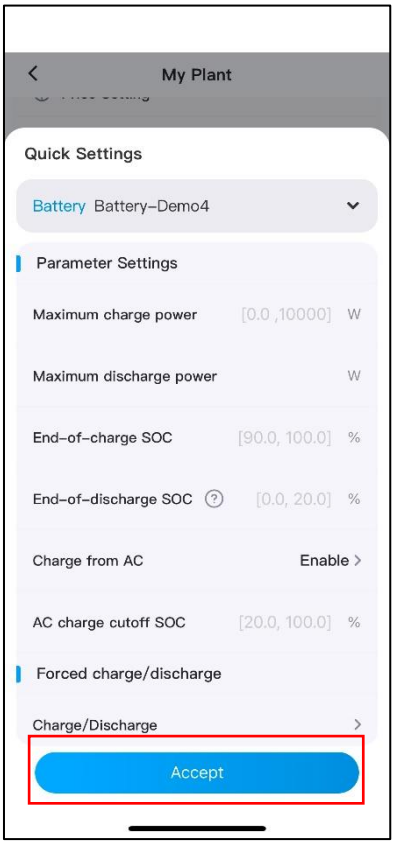
1.6.1.3 Device Parameter Setting

Click on “Quick Setting” tab under a plant, users can control the device by editing device parameters by following the steps below:

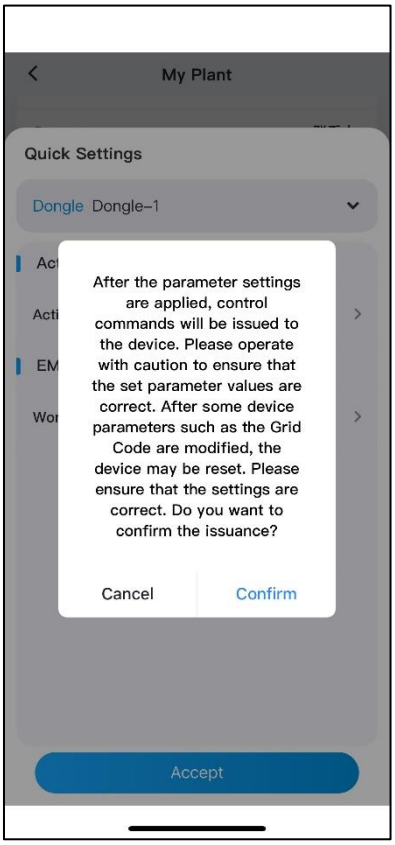
1. Currently for only support setting on battery parameters for end user.
   For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.



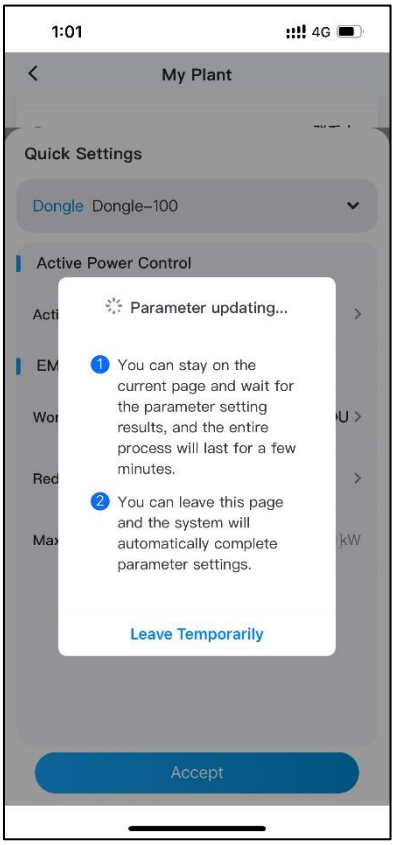
2. Update the preferred parameters according to the threshold range and prompt description of the parameter indicating on each parameter. Then press **[Accept].**



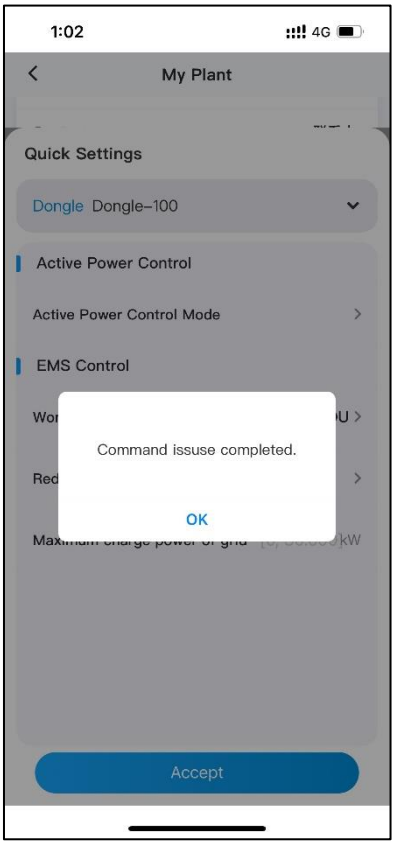
3. Double confirm the update by pressing the Confirm button.



4. When the parameter is updating, the user can choose to:
    a. wait on the current page or
    b. leave temporarily and come back later to check the parameter.



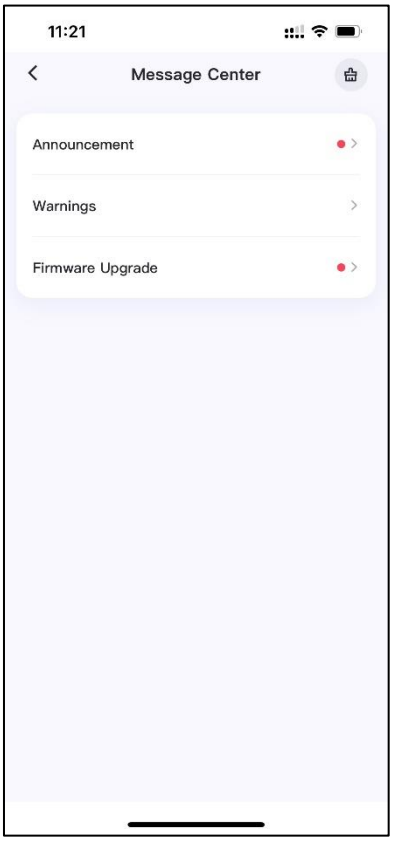
5. If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show that the message: **Command issue completed** as shown below.



6. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

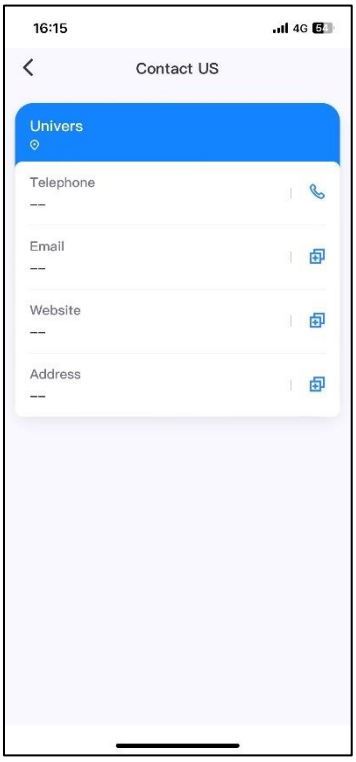
1.6.2 Message Center

Users can receive and read Announcement, Warnings and Firmware Upgrade related message.



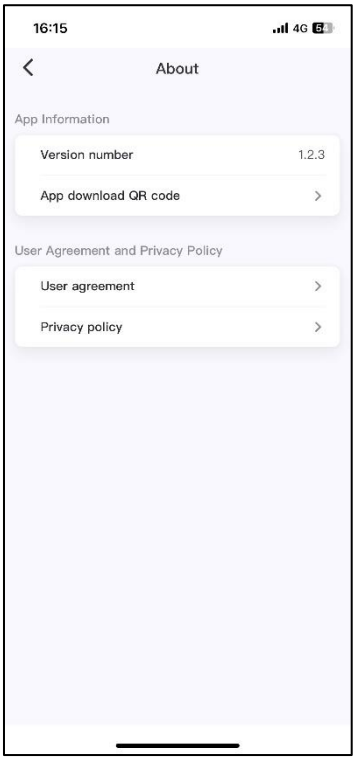
1.6.3 Contact Us

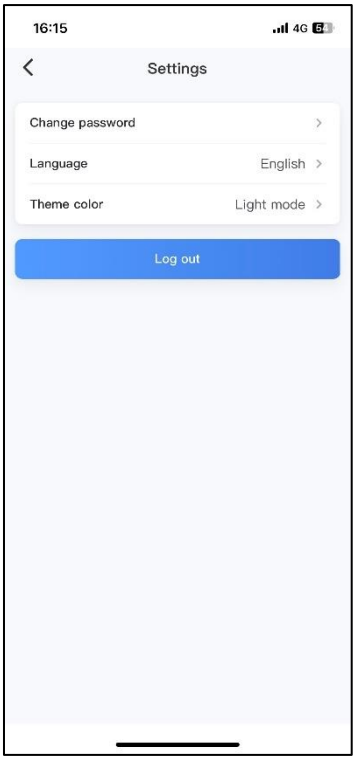
The user can check the contact information of device manufacturers and can contact them for after-sale or plant operation and maintenance needs.



1.6.4 About

The user can view the version information of the mobile App, the user agreement and privacy policy of the system.



1.6.5 Settings

Under the settings, the user can log out, change account passwords, switch languages, and switch theme styles.