

**About the Microinverter**

This system is composed of a family of microinverters that convert direct current (DC) into alternating current (AC) and feeds it into the public grid. The system is designed for the incorporation of one microinverter for one, two, or four photovoltaic modules. Each microinverter works independently to deliver the maximum power generation of each photovoltaic module. This setup enables the user to control the production of a single photovoltaic module directly, consequently improving the flexibility and reliability of the system.

**About the Manual**

This manual contains important instructions for the D350-M1 / D700-M2 / D1500-M4 microinverters. It must be read in its entirety before installing or commissioning the equipment. For safety, only qualified technicians or account administrators, who have received training or have demonstrated skills can install and maintain this microinverter under the guide of this document.

**Other Information**

Product information is subject to change without notice. Please refer to Power Center official website at [www.duracellpowercenter.com](http://www.duracellpowercenter.com) for the latest version of the installation manual.

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## 1 Important Notes

### 1.1 Product Range

This manual describes the App commissioning process of the following models of Power Center microinverters:

D350-M1 / D700-M2 / D1500-M4

### 1.2 Target Group

This manual is only for qualified technicians/account administrators, who have been trained or have demonstrated skills to install and maintain/monitor this microinverter under the guide of this document for safety purposes.







## 2 Safety

### 2.1 Important Safety Instructions

The microinverters are designed and tested according to the international safety requirements. However, certain safety precautions must be taken during installation and operation. The installer must read and follow all instructions, cautions, and warnings in this installation manual.

All operations including transport, installation, start-up, and maintenance, must be carried out by qualified trained personnel.
Before installation, check the unit to ensure free of any transport or handling damage, which could affect insulation integrity and safety clearances. Choose the installation location carefully and adhere to specified cooling requirements. Unauthorized repairs, necessary protections, improper use, incorrect installation and operation may lead to serious safety and shock hazards or damage.
Before connecting a microinverter to the power distribution grid, contact the local power distribution grid company to get appropriate approvals. This connection must be made only by qualified technical personnel. It is the responsibility of the installer to provide external disconnect switches and Over current Protection Devices (OCPD).
Only one photovoltaic module can be connected to one input of the inverter. Do not connect batteries or other sources of power supply. The inverter can be used only if all the technical characteristics are observed and applied.
Do not install the equipment in adverse environment conditions such as flammable, explosive, corrosive, extreme high or low temperature, and humidity. Do not use the equipment when the safety devices do not work or disabled.
Use personal protective equipment, including gloves and eye protection during the installation.
Inform the manufacturer about non-standard installation conditions.
Do not use the equipment if any operating anomalies are found. Avoid temporary repairs.
All repairs should be carried out using only qualified spare parts, which must be installed in accordance with their intended use by a licensed contractor or authorized Power Center service representative.
Liabilities arising from commercial components are delegated to their respective manufacturers.
Anytime the inverter has been disconnected from the public network, please be extremely cautious as some components could be charged sufficient to create a shock hazard. Prior to touching any part of the inverter please ensure surfaces and equipment are at touch safe temperatures and voltage potentials before proceeding.
Power Center accepts no liability for damage from incorrect or improper operation.
Electrical Installation & Maintenance shall be conducted by a licensed electrician and shall comply with Local Wiring Rules.

## 2.2 Explanation of Symbols

Symbol	Usage
	<b>Treatment</b> To comply with the European Directive 2002/96/EC on waste Electrical and Electronic Equipment and its implementation as national law, electrical equipment that has reached the end of its life must be collected separately and returned to an approved recycling facility. Any device no longer required must be returned to an authorized dealer or approved collection and recycling facility.
	<b>Caution</b> Indicates directions which must be fully understood and followed in entirety in order to avoid potential safety hazards including equipment damage or personal injury.
	<b>Danger of high voltages</b> Indicates a hazardous situation that can result in deadly electric shock hazards, other serious physical injury, or fire hazards.
	Indicates that the reader should stop, use caution and fully understand the operations explained before proceeding.
	<b>Beware of hot surface</b> The inverter can become hot during operation. Avoid contact with metal surfaces during operation.
	<b>FCC mark</b> The inverter complies with the requirements of part 15 of FCC rules.

## 2.3 Radio Interference Statement

This microinverter has been tested and found to comply with the limits for part 15 of FCC rules, which can provide reasonable protection against harmful energy. However, if not installed according to the instructions, the microinverter may cause harmful interference to radio equipment. There is no guarantee that the interference will not occur in a particular installation.

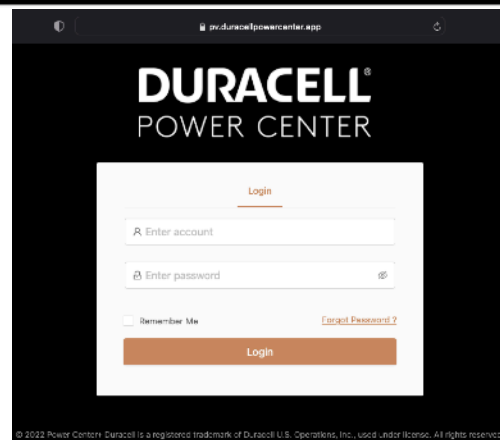
To confirm that the radio or television reception is interfered by this equipment, you can turn the equipment off and on. If this equipment does cause harmful interference to the radio or television equipment, please try to correct the interference by one or more of the following measures:

- 1 Relocate the receiving antenna.
- 2 Increase the separation between the microinverter and the receiving antenna.
- 3 Contact your dealer or an experienced radio/TV technician for help.

## 3 Product Introduction

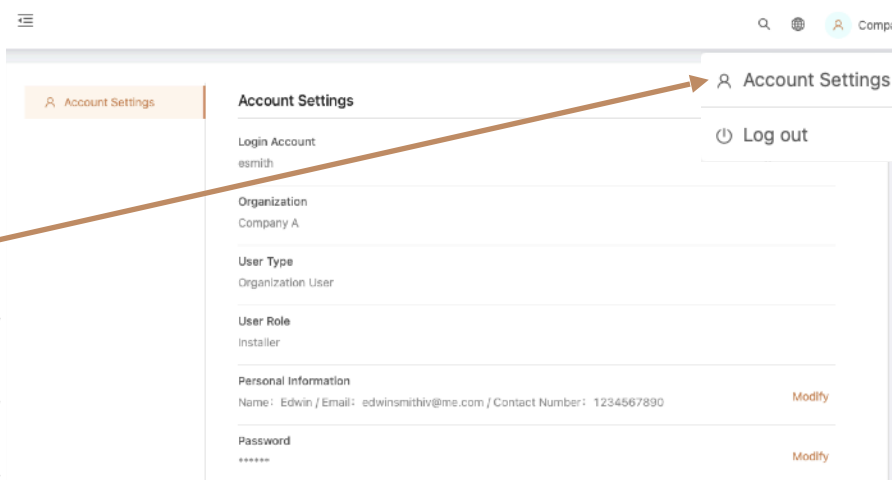
### 3.1 Website Login

- 1 Navigate to: <https://pv.duracellpowercenter.app/platform/login>
- 2 Enter the [account] and [password] for the account or enter the information provided by the Tech Support Agent
- 3 Press the [Login] button at the bottom of the screen



### 3.2 Password Change

- 4 Hover over the account button in the top right until a drop down menu appears



- 5 Press the [Account Settings] button

**Account Settings**

<b>Login Account</b>	Company_Administrator
<b>Organization</b>	Company A
<b>User Type</b>	Organization User
<b>User Role</b>	Installer
<b>Personal Information</b>	Name: Company Administrator / Email: None / Contact Number: 1234567890 <span>Modify</span>
<b>Password</b>	***** <span>Modify</span>

- 6 In the Account Settings pop-up, scroll to the bottom right, and press the copper **Modify** button

- 7 Type the Original Password, the preferred New Password, and the same password into the Confirm Password field

- 8 Press the [Confirm] button

**Edit Basic Information**

Login Account: Company\_Administrator

\* Original Password:

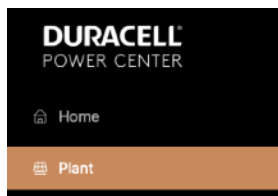
\* New Password:

\* Confirm Password:

Cancel Confirm

## 4 Plant Creation

### 4.1 Website Login



9 Press the [Plant] button on the left side of the page

Company\_Admini..

10 Next press the [Create Plant] button on the right side of the page

Create Plant

11 Please enter this information:

- Plant Name
- Plant Type (residential, commercial, Large Commercial)
- Capacity (kW)
- Time Zone
- Address
- Region
- Photo uploads are optional

Note: In the Address section, the current location map will come up. Type the correct address unless it is provided on the bottom of the screen. Press the confirm button on the top right. Region will ask for country, state, county, and city.

12 Press the [Next] button at the bottom of the screen. Site will move to creating an Owner

← Create Plant (Basic Information)

\* Plant Name:

\* Plant Type:

\* Organization:

\* Capacity:  kW

\* Location:

Please search or mark the location of your plant on the map.

Plant Cover:

Suggested size: 1000x600. Format: JPG, JPEG, PNG, GIF. No more than 2 MB.

## 5 Owner Creation

### 5.1 Add Owner

13 Press the [Create Owner] button

If they are adding to a current system, or creating a second system, press the [Select Another Owner] button



Please bind current owners or add new owners of the plant.

Create Owner

Create Owner X

\* Login Account:  [Select Another Owner](#)

\* Password:

\* Full Name:

Contact Number:

Email:

\* The email address will be used to reset the password when you recommend that you enter an email address.

[Cancel](#) [Confirm](#)

14 Create Owner required fields:

- Login Account
- Password
- Full Name

It is suggested to also add:

- Contact Number
- Email

Create Owner

\* Login Account:  [Clear Selected Owner](#)

\* Full Name:

Contact Number:

Email:

[Cancel](#) [Confirm](#)

15 Press the [Confirm] button at the bottom right

16 Once loaded, verify the Owner information

18 The following screen will again allow for information verification, but also includes the following editable selections:

- Edit (Allows editing of the Full Name, Contact Number, and Email)
- Reset Password
- Remove

Login Account	Name	Contact Number	Email	Creation Time	Action
HomeownerLogin	Homeowner Name			2022-07-14 22:28:13	<a href="#">Edit</a>   <a href="#">Reset Password</a>   <a href="#">Remove</a>
<div> <a href="#">+ Create Owner</a> </div>					

17 Press the [Confirm] button on the bottom right

19 Press the [Next] button on the bottom of the screen

## 6 Add & Edit Devices

### 6.1 Add Device

20 Press the [+ Add Device] button in the center



### 6.2 Add DTU and Microinverters

21 Add the DTU Serial Number. Once entered, the field for a microinverter will appear

22 Add the Microinverter Serial Number and press [+ Add a Row] or [Add Multiple Rows] on the bottom

Note: The Add Multiple Rows button can be used to list off all microinverters into one field

23 Once all micros are entered, press the [Save] button on the bottom.

The app will return to the Add Device/Layout screen

24 If finished adding devices, press the [Next] button on the bottom of the screen

There is no device in this plant, please add.

+ Add Device

Add Device

\* DTU SN: Enter SN

\* Microinverter SN: Enter SN

Enter SN

Enter SN

Enter SN

Enter SN

+ Add a Row

Add Multiple Rows

← Add Device/Layout (Site A)

1 Devices > 2 Layout Design > 3 Upload Installation Map

DTU	Micro	Action
10F874435559	112164201584, 112173448983, 114164200485	<a href="#">Edit</a> <a href="#">Delete</a>

Cancel Next

### 6.3 Edit Microinverter & Module Layout

Select the automatic layout method for PV modules

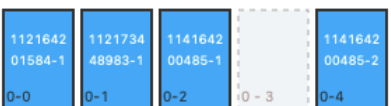
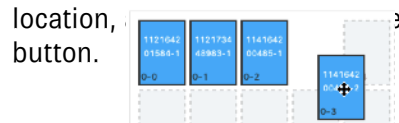
☒ Arrange in Order
 ☐ Arrange According to DTU
 ☐ Arrange According to Microinverter
 ☐ Custom Arrangement

25 Choose whichever automatic layout method that is preferred. With any choice, layout can always be adjusted

27 To adjust microinverter/panel locations, hover the mouse over the representation of the panel that should be moved. The mouse icon should change to



28 Click and drag the panel representation to the proper location, button.



26 In the Add Device/Layout screen, the microinverter serial numbers are written on each. Dual and quad microinverters share a serial, but each input is differentiated by -1, -2, -3, and -4 after the serial as shown below.

← Add Device/Layout (Test Site)

1 Devices > 2 Layout Design > 3 Upload Installation Map

PV Module List

Enter micro SN

Layouts for all devices are complete

(Array Name: Default array)

Cancel Next

29 If finished, press the [Next] button on the bottom of the screen.



30 In the Edit PV Array pop up, all fields are required, but are editable at a later date:

- Array Name (When multiple arrays are present, adjectives make locating specific microinverter or modules at a later date)
- Layout Pattern (Whether the module is mounted portrait or landscape)
- Azimuth
- Inclination

**Edit PV Array**

\* Array Name:

\* Layout Pattern: ☒ Vertical ☐ Horizontal

\* Azimuth:  (0°~360°)

\* Inclination:

Cancel Confirm

31 Press [Confirm] when finished

## 6.4 Upload Installation Map

32 A photo of the installation map can be uploaded to be used as a backup. It can also be useful for the installer to follow after an admin sets up the system online

Devices > Layout Design > **3 Upload Installation Map**

Click or drag to upload pictures

Please upload pictures in JPG, JPEG, PNG, or GIF format. The size of a single file cannot exceed 2 MB.

Cancel Next

## 6.5 Settings Adjustments

**Settings (Test Site)**

Export Management

Enable Export Management? ☐

Power Balance Config

Plant Regulation

33 To Enable Export Management click and drag the slider to the right

34 Export Management

- Grid Type (As of this document, Duracell microinverters are only compatible with:  
Split-phase 120V/240V)
- Meter Location (Limiting export requires measurement. As of this document, there are no Duracell recommended Meters)
- Export Control (This section is where the specific production limit is set)

Enable Export Management? ☒

☐ Single-phase Grid 230V  
☐ Three-phase Grid 230V/400V  
☐ Split-phase Grid 120V/240V  
☐ Three-phase Grid 120V/208V

**Meter Location**

☐ Load Meter A  
☐ Grid Meter B  
☐ Solar Meter C

**Export Control**

Export Management: ☒ Export Power Limit

\* Export Power Limit:  kW

Export Management

Power Balance Config

Plant Regulation

Enable Three-phase System Balance Config? ☐

Export Management

Power Balance Config

Plant Regulation

35 As of the writing of this document, Duracell microinverters are not compatible with Three-phase electrical systems

### 36 Plant Revenue

- Plant Name (Confirm the correct name is used)
- Currency
- Electricity Price per Unit (If rates vary, please use an average per kWh)

### 37 Allow Owner to View Layout (Should be on to allow the homeowner access)

### 38 Automatic Networking (This allows the DTU to maintain connection to the available network, should always be on)

### 39 Press the [Complete and activate the plant]

Plant Revenue

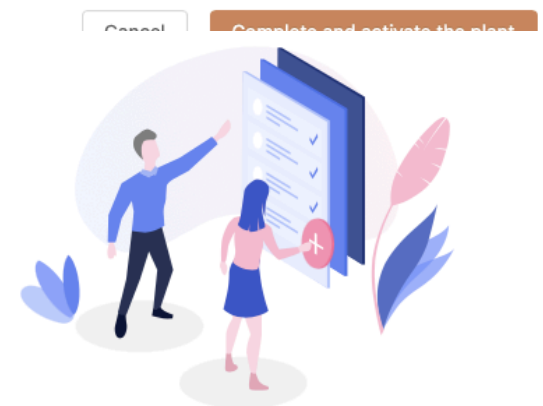
Plant Name: Site A  
Currency:   
Electricity Price per Unit:

Advanced Settings

Allow Owner to View Layout: ☒

Networking

Automatic Networking: ☒ ⓘ



### 40 The webpage will load the site and offer to:

- [Back to Plant List] (Navigates to the plant page showing all the account has access to)
- [View Plant] (Navigates to the direct Plant webpage)

### 41 Plant creation complete

Cancel

Complete and activate the plant

### Operation completed

Command is being issued, please wait a moment., Loading (1/30) !

Back to Plant List

View Plant