

# **Eon Solar User Manual**

Website Cloud Monitoring V2.0





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## General

EON SOLAR is a PV storage management and monitoring system that can monitor and analyze the operating status of each device in real time, including device management, and user management.

There are different types of user roles of EON SOLAR: End Users, Installers and Distributers.

This user manual is for End Users.

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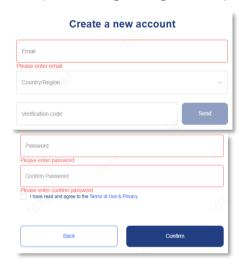
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## 1. Login

#### 1.1 Registration and Login

- Step 1: Visit <a href="https://solar.eonlandfuture.com">https://solar.eonlandfuture.com</a> in web browser;
- Step 2: In the upper right corner of the home page, select the language;
- Step 3: Click Create a New Account on the login page;
- Step 4: Fill in the correct Email Address, Verification Code, Country/Region, Password, and Confirm Password;
- Step 5: Read and check I have read and agreed to the Terms of Use & Privacy Policy, click the Confirm to finish the registration;
- Step 6: Enter the correct email address and password;
- Step 7: Click **Login** to log into the system.





#### 1.2 Personal Information

- Step 1: Log in to the system;
- Step 2: Click the drop-down box in the upper right corner;



Step 3: Click Person Info to view Email Address, Country/Region and other information.



#### 2. Overview

#### 2.1 Home Page

The following information are shown on the Home page:

Information Overview	Data Name
Weather	<ul><li>Region</li><li>Weather Conditions (in the past three days)</li></ul>
Power Yield Overview	<ul> <li>Power yield for daily, monthly and yearly</li> <li>Total Yield</li> <li>Revenue (settable)</li> <li>CO<sub>2</sub> Emission Reduction</li> </ul>
Power Overview	<ul><li>Total Capacity</li><li>Real-time power (displayed as a fan graph)</li></ul>
Plant Overview	<ul> <li>Number of Plants</li> <li>Total Number of Microinverters</li> <li>Number of Online Microinverters</li> <li>Plant Data Chart (you can view year, month, day, and total data charts separately)</li> </ul>



#### 2.2 Electricity Management

Electricity Management is used to manage electricity prices in different time periods, and then calculate the revenue based on the electricity price and power yield.

- Step 1: Click the icon One next to Revenue;
- Step 2: Set the drop-down box Monetary Unit, including US Dollars, Euro, RMB, etc.;
- Step 3: Set Period and Electricity price;
- Step 4: Click **Save**.





## 3. Plant Management

#### 3.1 List Information

A plant is composed of microinverters, gateways (required) and other sub-devices. Users can view, search, create, and delete plant.

Item	Description
Picture	Showing pictures of plant
Plant ID	Showing an 8-digit number generated when the plant was created.
Plant Name	Showing the name of the plant
Capacity (W)	Showing the total installed capacity of the plant (W)
Working Status	Showing the working status of the plant, including online, offline and fault status
Creation Time	Showing the creation time of the plant
Operations	Including editing, details, adding, upgrading and deleting the plant devices  2: Plant Editting 1: Plant Details 2: Plant Devices Adding 2: Plant Upgrading 1: Plant Deleting

#### 3.2 Plant Operation

#### 3.2.1 Create The Plant

- Step 1: Click Plant in the Menu Column;
- Step 2: Click Add in the upper right corner;
- Step 3: Fill in the plant information, the items marked with \* are required;
- Step 4: Click **Confirm**, and the Add Gateway and Device pop-up window will appear. Then gateways and devices (optional) could be added.





#### 3.2.2 Search The Plant

The plant can be searched based on the two keywords: Plant Name, and Working Status.



Note: When searching, if you need to enter numbers and letters, full-width input is not supported.

#### 3.2.3 Modify The Plant

- Step 1: Select the plant to be modified;
- Step 2: In Operation of the plant, click ;
- Step 3: Fill in the content to be modified (Plant Name, Country/Region, Full Address, Capacity (W), Owner Email, Picture, and click Confirm.

#### 3.2.4 View The Plant

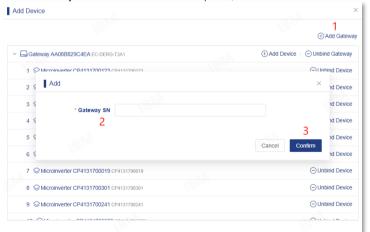
- Step 1: Select the plant you want to view;
- Step 2: In **Operation** of the plant, click 📵 to view the plant information.

#### 3.2.5 Delete The Plant

- Step 1: Select the plant to be deleted;
- Step 2: In Operation of the plant, click in.

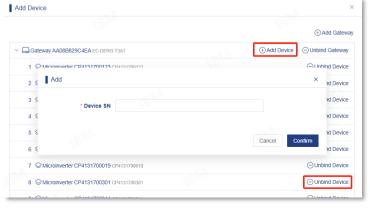
#### 3.2.6 Add and Unbind Devices

- Step 1: Select the Plant where you want to add devices;
- Step 2: In Operation of the Plant, click (+);
- Step 3: Click Add Gateway and fill in the Gateway SN;



Step 4:

(1) Add device: Click Add Device and fill in the Device SN to add the device.





#### (2) Unbinding the device

- Method 1 In the Add Gateway/Device interface, click Unbind Device to unbind the device;
- Method 2 On the Plant Homepage, click ... (More operations) of the plant that the device belongs to.

  The drop- down box can be used to view the device status of the plant. Click Ounbind Device to unbind the device.

#### Note:

① Before adding a device, a gateway device has to be added. There could be multiple gateways in one plant, and multiple devices under one gateway.

#### 3.3 Plant Monitoring and Analysis

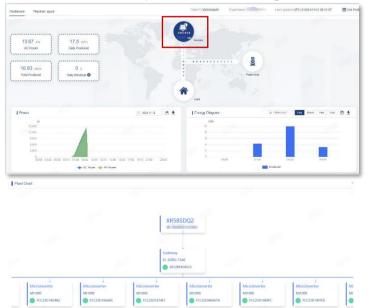
• Step 1: Click the ID of the Plant you want to view;



 Step 2: Enter the data monitoring and analysis page, click **Dashboard** to view the Total Power, Power Generation, AC Power, Daily Revenue of the Plant, and data charts that can be automatically generated at a set time (data charts can be downloaded for viewing);



• Step 3: Click Inverter and users can view the plant architecture diagram.





## 4. Device Management

#### 4.1 List Information

ltem	Illustrate
Device SN	Display device SN (only numbers and letters are supported, unique)
Device Type	Display device type , including micro inverter, gateway, and meter
Device Model	Display device model
Powe(W)	Displays the installed capacity of the micro inverter (W)
Status	Displays the device status, including not shipped, shipped, installed, under repair, and scrapped
Firmware Version	Display device firmware version
Creation Time	Displays the device installation time (the time when the device was added to the plant)
Operations	Including device editing, details, unbinding, and restart operations  : Equipment Editor : Device Details : More Operations (Including unbinding devices and restarting devices)

**Note:** Equipment management is done under the plant. To operate the equipment, please select the plant corresponding to the equipment.

#### **4.2 Devices Operation**

#### 4.2.1 Add Devices

For details, see 3.2.6 Add and Unbind Devices

#### 4.2.2 Modify Devices

- Step 1: Select the plant where you want to modify the equipment and click
- Step 2: In **Operation** of the row where the corresponding device is selected, click \*;
- Step 3: Fill in the content to be modified (only the device name can be modified) and click Confirm.

#### 4.2.3 View Devices

- Step 1: Select the plant where you want to modify the equipment and click v ;
- Step 2: In **Operation** of the device row, click 📵 to view the Device Information.

#### 4.2.4 Unbind Devices

#### Method 1:

- Step 1: Select the plant where you want to modify the equipment and click \*;
- Step 2: In the operation column (more operations) of the device row, click @Unbind Device to unbind the device.

**Note:** When you unbind a gateway device, the microinverter devices associated with the gateway will also be unbound accordingly.

#### Method 2:

For details, see 3.2.6 Add and Unbind Devices



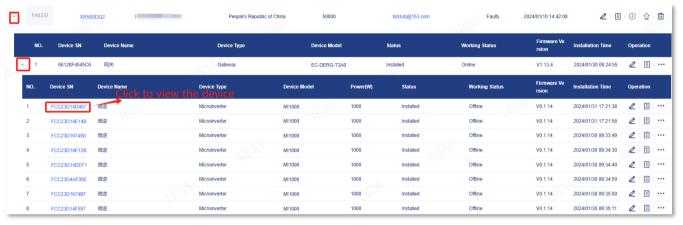
#### 4.2.5 Devices Restart

- Step 1: Select the plant where you want to modify the device and click \*;
- Step 2: In the Operation column (More Operations) of the device row, click () to issue a command to restart
  the device.

**Note:** Restarting the microinverter requires the gateway to be online and the device to be online (the device is powered on).

## 4.3 Device Data Monitoring and Analysis

• Step 1: Click **Plant** in the Menu column, select the plant to which the device belongs, click **Device SN** to be viewed, and enter the data monitoring and analysis page of the device;



• Step 2:

#### (1) Inverter Data Analysis

By clicking **Inverter Analysis**, users can observe the AC power, the current and total power generation of the day, the voltage, current and power of the inverter input PV1, PV2 and the output, the device operation time, etc. The data charts can be automatically generated by setting the time, and both the data and charts can be exported.





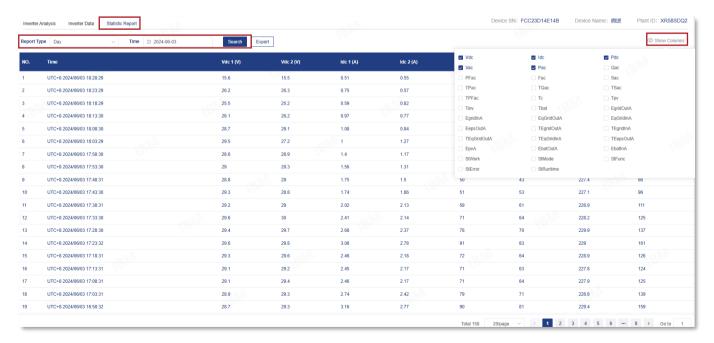
#### (2) Inverter Data

Click **Inverter Data**, select the required data options (up to five) in **PV Module** drop-down box, and enter the query date in **Time** control. The selected data will be displayed in the form of a curve graph.



#### (3) Statistical Report

Click **Statistical Report**, and select the four options of Year, Month, Day, and All in **Report Type** drop-down box. Enter the query time, and click **Search** to query the power generation of the device. Click **Show Columns** can select multiple list to display.





## 5. Event Management

#### 5.1 List Information

Item	Illustrate
Alarm Name	Display alarm name
Alarm Level	Display alarm level, including prompt, warning, error, and serious error
Fault Code	Display alarm code, including 1-64
Device Type	Displays the type of faulty equipment , including micro inverters, gateways, and meters
Device Model	Display the faulty device model
Creation Time	Display device failure time
Update Time	Displays the recovery time of the faulty device
Comments	Comment on the cause of the alarm
Operate	Including editing and deleting operations of faults  2: Edit  1: Delete

#### 5.2 Alarm Search

- Step 1: Click **Event** in the Menu column;
- Step 2: Search the Device Fault Status by using the keywords Plant ID , Device SN , Device Type, Device Model, Status, and Fault Code.

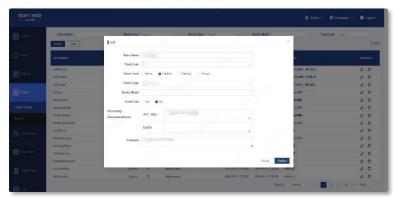


#### 5.3 Deletion Alarm

- Step 1: Select the Alarm to be edited;
- Step 2: In **Operation** of the fault row, click  $oxedsymbol{ ilde{a}}$  .

## 5.4 Troubleshooting Edit

- Step 1: Select the row where you want to handle the alarm and click  $\angle$  ;
- Step 2: Fill in the comment and other field;
- Step 3: Click Confirm, and Status will show Processed.





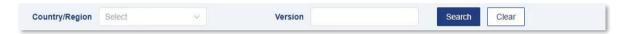
## 6. Grid Profile Management

#### 6.1 List Information

Item	Illustrate
Grid File Name	Display the network file name
Country / Region	Display the country where the grid is connected
Version Number	Display the version number of the grid-connected file
Update Time	Display the grid-connected file update time
Comments	Show notes
Operate	Including editing, detailing and deleting of grid-connected files  2: Grid profile editing  3: Grid profile details  3: Grid profile deletion

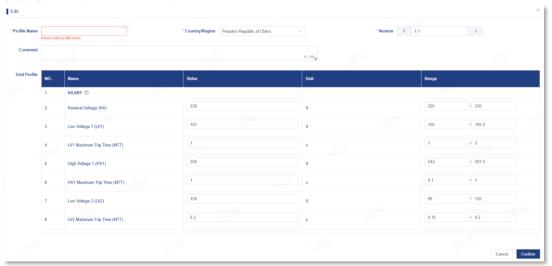
#### 6.2 Grid Profile Search

- Step 1: Click Grid Profile in the directory column;
- Step 2: Search for grid connection files by using the keywords that Country / Region and Version.



## 6.3 Grid Profile Editing

- Step 1: Select the row of the profile to be modified and 4;
- Step 2: PF and other parameters according to the requirements of the local regulatory authorities (click ), with optional parameter prompts);
- Step 3: Click Confirm.



#### 6.4 Grid Profile Viewing

- Step 1: Select the row of the profile to be modified and click 📵 ;
- Step 2: Check the set grid frequency range, grid voltage range, PF and other parameters.

#### 6.5 Grid Profile Deletion

- Step 1: Select the row of the grid profile to be deleted and click :
- Step 2: Delete the grid profile with incorrect modifications.

Note: Users can only delete the grid profile that they have modified.