

# User Manual

iSolarDesign 4.0

iSolarDesign



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# 1 About This Manual

## Target Group

This manual is applicable to plant designers. The plant designer is required to meet the following requirements:

- Understand the working principle and operation method of the inverter.
- Be familiar with local standards and relevant safety regulations of electrical systems.

## Symbol Explanations



**NOTE** indicates additional information, emphasized contents, or tips that may be helpful, e.g. to help you solve problems or save time.

## Requirements

| Item       | Requirement                                                    |
|------------|----------------------------------------------------------------|
| Browser    | Chrome 60 and above, Safari 10 and above, Firefox 60 and above |
| Resolution | 1920 * 1080 is recommended, and 1366 * 768 is supported        |

## Main Content

This manual is to provide readers with an overview of how to use iSolarDesign.



iSolarDesign V3.1 is taken as an example for illustration in this manual, and figures are for reference only. The actual interface shall prevail.

## 2 Common Operations

### 2.1 Account Registration

This section introduces the registration process of an iSolarDesign account.

#### Prerequisites

The computer can access the network.

#### Procedure

**Step 1** Enter [https:// design.isolarcloud.com](https://design.isolarcloud.com) in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click  in the upper right corner to switch the language.

**Step 3** Click **Register** to enter the registration interface.

**Step 4** Enter the email address and click **Verification Code**.

**Step 5** Enter the verification code received in the mailbox.



The verification code is valid in 30 minutes. If it takes more than 30 minutes to register an account, you need to register an account again.

**Step 6** Enter the password twice, and then click **Next**.



Make sure that the password entered twice is the same and consists of at least 8 digits.

**Step 7** Enter **First Name** and **Last Name**, select **Country/Region** and **Time Zone**, tick **I have read and agreed to Terms of Service**, and click **Register**.

--End

### 2.2 Login

#### Prerequisite

This section introduces the steps for plant designers to log in to the iSolarDesign system.

#### Prerequisites

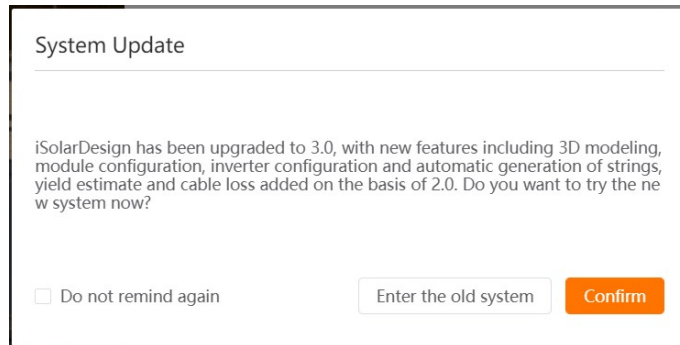
- The account and password are obtained.
- iSolarDesign works normally, and the computer can access the network.

### Procedure

**Step 1** Enter [https:// design.isolarcloud.com](https://design.isolarcloud.com) in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click  in the upper right corner to switch the language.

**Step 3** Select the server address, enter the email address and password, and click **Login**. The prompt box below may pop up.



Click **Confirm** to enter the 3.1 system, and click **Enter the old system** to enter the home page of the 2.0 system. Tick **Do not remind again** and this box will not pop up later.



Users can select **Remember Me** as needed to facilitate the next login.

--End

## 2.3 Logout

This section introduces the steps for plant designers to log out the iSolarDesign system.

### Prerequisites

- Logged into the iSolarDesign system.

### Procedure

Click **Logout** in the drop-down list of **User Account** in upper-right corner of the interface.

## 2.4 Reset Password

### Prerequisite

This section introduces how to retrieve the password if the plant designer forgets it.

### Prerequisites

- Already have an account.
- iSolarDesign works normally, and the computer can access the network.

### Procedure

**Step 1** Enter [https:// design.isolarcloud.com](https://design.isolarcloud.com) in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click **Reset Password** to go to the **Account and Security** interface.



**Step 3** Enter an email address and click **Next**.

**Step 4** Click **Send Verification Code**. Enter the verification code received in the mailbox and click **Next**.

 The verification code is valid in 30 minutes.

**Step 5** Enter a new password and click **Modify**.

 The new password must meet the following requirements:

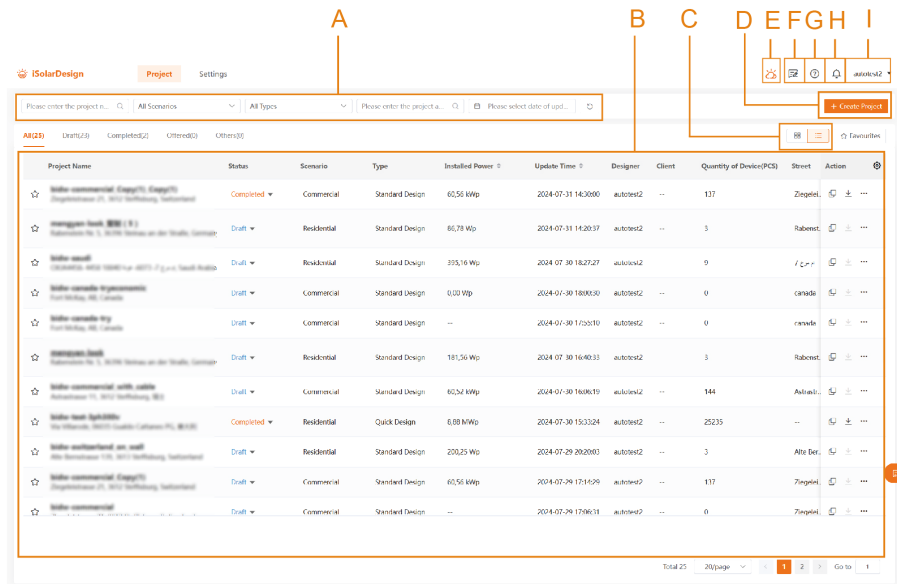
- a. The password consists of at least 8 digits.
- b. The password contains at least one letter and one number.

**Step 6** It is prompted that the modification is completed and the system automatically goes back to the login interface.

**--End**

## 3 Home

The home page after a successful login is as follows.



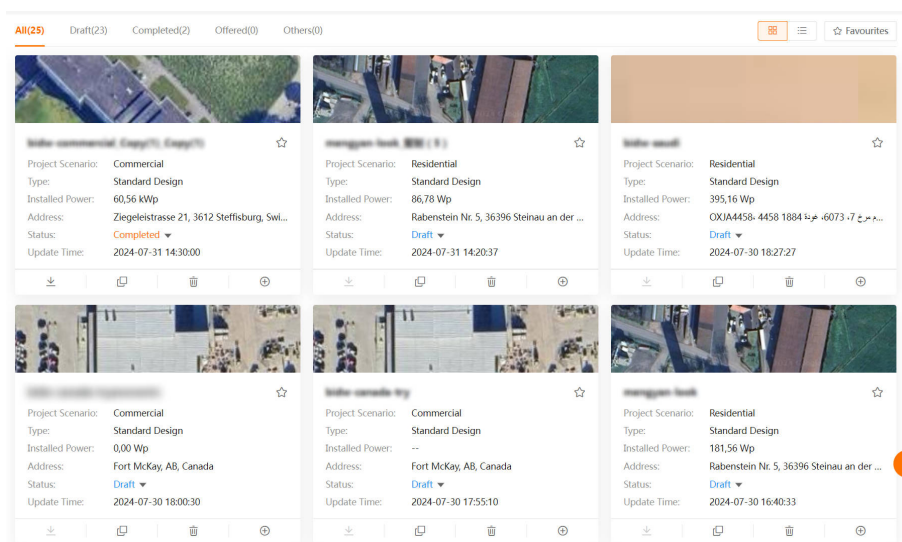
| N o. | Name                             | Description                                                                                                                    |
|------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| A    | Search bar                       | Fill in conditions to search for the required projects.                                                                        |
| B    | Project list                     | The project that the user has created. See <a href="#">4 Project List</a> for details.                                         |
| C    | Switch between card/list display | The projects can be displayed in <b>Card View</b> or <b>List View</b> . See <a href="#">4 Project List</a> for details.        |
| D    | Create project                   | Click it to create a new project. See <a href="#">5 Project Creation</a> for details.                                          |
| E    | Go to iSolarCloud                | Click  to go to the iSolarCloud O&M system. |
| F    | Feedback                         | Make suggestions for iSolarDesign on this interface. See <a href="#">7 Feedback</a> for details.                               |
| G    | Help                             | Check out the <b>User Manual</b> and <b>Help Videos</b> .                                                                      |
| H    | Message                          | Click it to go to the notification interface. See <a href="#">9 Messages</a> for details.                                      |

| N<br>o. | Name         | Description                                                                                                                                                        |
|---------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I       | User account | Display the current user account. Click it to go to the <b>Personal Settings</b> interface or to <b>Exit</b> . See <a href="#">8 Personal Setting</a> for details. |

## 4 Project List

After a successful login, users will go to the **Item** interface by default. Switching between **Card View** and **List View** is supported.

### 4.1 Card View



Cards are listed in order of update time and can be filtered by the project status above.

A card contains the following contents:

- **Project name:** The project name.
- **Project scenario:** It is divided into residential and commercial plants.
- **Type:** Standard design or quick Design.
- **Installed power:** The total power of the project.
- **Address** The address of the project. Moving the cursor over the address can view the detailed address information.
- **Status:** The status of the project. The project status includes **Draft**, **Completed**, **Offered**, and **Others**. Click ▼ to update the project status.



If the project is in **Draft** status, the status cannot be switched.

- **Update time:** The latest update time of the project.

The following operations can be performed on the card:

- Add to favorites/Remove from favorites: Click  to **Bookmark** the project, and click  to **Remove from favorites**.



Click  Favourites in the upper right corner of the interface to display all the projects in the favorites in order of bookmarking time.

- Copy: Click  to copy the data of the current project. The name of the copied project defaults to "Project Name\_Copy (1)".
- Download: Click  to download the overview and layout of the project.
- Delete: Click  to delete the project.
- Create Plant: Click  to go to the iSolarCloud Web. **Basic Plant Information** and **Plant Location** are filled in automatically. Fill in **Owner Information** and click **Create Plant**.

< Back **Create Plant** Create Plants in Batch

---

**Basic Plant Information**

|                                        |                                                          |                              |
|----------------------------------------|----------------------------------------------------------|------------------------------|
| * Plant Name<br>Hltn_004_Copy(1)       | * Plant Type<br>Residential Storage                      | Installed Power(Wp)<br>25200 |
| * Country/Region<br>China              | * Time Zone<br>(UTC+08:00)Beijing, Chongqing, Hong Ko... |                              |
| * Grid-connection Type<br>100% Feed-in | Grid-connection Date<br>2022-11-21                       |                              |

Plant Image  


---

**Plant Location**

\* Detailed Address  
Hefei Science and Technology Museum, Xiyuan Street, Shushan District, Hefei City, Anhui Province

Postal Code  
Please Enter



**Create Plant**



If the project is in **Draft** status, the plant cannot be created.



## 4.2 List View

| All(25) Draft(2) Completed(2) Offered(0) Others(0) |                                                                                              |             |             |                 |                   |                     |           |        |                         |           | ⌵ ⌶ ⌵ Favourites |   |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|-----------------|-------------------|---------------------|-----------|--------|-------------------------|-----------|------------------|---|
|                                                    | Project Name                                                                                 | Status      | Scenario    | Type            | Installed Power ⌵ | Update Time ⌵       | Designer  | Client | Quantity of Device(PCS) | Street    | Action           | ⊞ |
| ☆                                                  | <b>Water commercial Energy(1) Energy(1)</b><br>Zingelstein 21, 8012 Seefrieding, Switzerland | Completed ▾ | Commercial  | Standard Design | 60,56 kWp         | 2024-07-31 14:30:00 | autotest2 | --     | 137                     | Zingelst. | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Wassgen Haus (20) ( 9 )</b><br>Rabenstein Nr. 1, 8010 Seefrieding an der Wiedle, Germany  | Draft ▾     | Residential | Standard Design | 86,78 Wp          | 2024-07-31 14:20:37 | autotest2 | --     | 3                       | Rabenst.  | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water small</b><br>Ottensheim 4450 10000144 407117 2 g.m. South Africa                    | Draft ▾     | Residential | Standard Design | 395,16 Wp         | 2024-07-30 18:27:27 | autotest2 | --     | 9                       | 7 شارع    | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water canada systemsmall</b><br>For Michel, 46 Canada                                     | Draft ▾     | Commercial  | Standard Design | 0,00 Wp           | 2024-07-30 18:00:30 | autotest2 | --     | 0                       | canada    | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water canada big</b><br>For Michel, 46 Canada                                             | Draft ▾     | Commercial  | Standard Design | --                | 2024-07-30 17:55:10 | autotest2 | --     | 0                       | canada    | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Wassgen Haus</b><br>Rabenstein Nr. 1, 8010 Seefrieding an der Wiedle, Germany             | Draft ▾     | Residential | Standard Design | 181,56 Wp         | 2024-07-30 16:40:33 | autotest2 | --     | 3                       | Rabenst.  | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water commercial with cable</b><br>Rabenstein 11, 8010 Seefrieding, DE                    | Draft ▾     | Commercial  | Standard Design | 60,52 kWp         | 2024-07-30 16:06:19 | autotest2 | --     | 144                     | Astrach.  | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water fast systembig</b><br>46 Canada, 407117 South Africa, 407117, 407117                | Completed ▾ | Residential | Quick Design    | 6,88 MWp          | 2024-07-30 15:33:24 | autotest2 | --     | 25235                   | --        | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water installation on roof</b><br>46 Seefrieding 110, 8012 Seefrieding, Switzerland       | Draft ▾     | Residential | Standard Design | 200,25 Wp         | 2024-07-29 20:20:03 | autotest2 | --     | 3                       | Alte Ber. | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water commercial Energy(1)</b><br>Zingelstein 21, 8012 Seefrieding, Switzerland           | Draft ▾     | Commercial  | Standard Design | 60,56 kWp         | 2024-07-29 17:14:29 | autotest2 | --     | 137                     | Zingelst. | ⌵ ⌶ ⌵            |   |
| ☆                                                  | <b>Water commercial</b><br>Zingelstein 21, 8012 Seefrieding, Switzerland                     | Draft ▾     | Commercial  | Standard Design | --                | 2024-07-29 17:06:31 | autotest2 | --     | 0                       | Zingelst. | ⌵ ⌶ ⌵            |   |

Projects are listed in order of update time and can be filtered by the project status above.

The following contents are included:

- **Project name:** The project name.
- **Status:** The status of the project. The project status includes **Draft**, **Completed**, **Offered**, and **Others**. Click ▼ to update the project status.



If the project is in **Draft** status, the status cannot be switched.

- **Scenarios:** Residential or commercial.
- **Type:** Standard design or quick Design.
- **Installed power:** The total power of the project.
- **Update time:** The latest update time of the project.
- **Designer:** The creator of the project.
- **Client:** The client name.
- **Creation time:** The time when the project is created.
- **Quantity of device:** The number of inverters in the project.
- **Street, City, Country, and Project address:** The address of the project. Moving the cursor over the address can view the detailed address information.
- **Operation:** Copy, download, delete, and create plants.
- **User-defined column:** Click ⚙ in the upper-right corner of the list. Tick the columns to be displayed in the dialog box and click **Confirm**. Click **Reset** to restore the default list.



**Project name** and **Operation** are fixed columns and cannot be ticked.

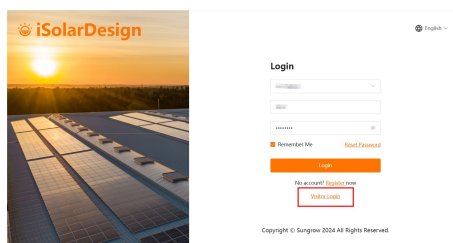
## 5 Project Creation

### Prerequisites

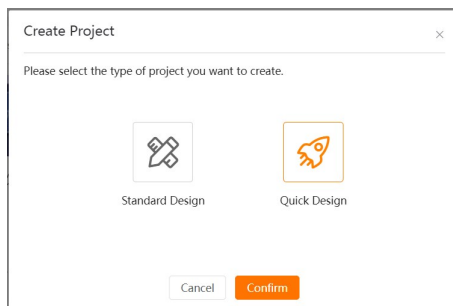
- Logged into the iSolarDesign system.
- The computer can access the network.

### 5.1 Quick Design

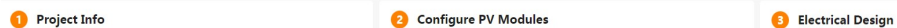
- Log in as a visitor  
Click **Visitor Login** on the login page to open the page for quick design.



- Log in with an account  
Log in to your iSolarDesign account and click **Create Project** in the upper right corner of the screen. Then, choose **Quick Design > Confirm** to go to open the page for quick design.



The work flow of quick design and report output is shown below:



#### 5.1.1 Project Information

**Step 1 Fill in General information.**

## General information

\* Project name Available area(m<sup>2</sup>) ⓘ

\* Project address

\* Latitude(°) \* Longitude(°)

\* Min. ambient(°C) \* Max. ambient(°C)

\* Project scenario \* Grid type ⓘ

Consumption(kWh)

☒ Annual ☐ Monthly

| Parameter                         | Description                                                                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project name*                     | User-defined name for the project.                                                                                                                               |
| Available area (m <sup>2</sup> )* | Available area of the site where the PV modules are installed.                                                                                                   |
| Project address*                  | Detailed location of the project.                                                                                                                                |
| Latitude (°)*                     | Auto-filled with the latitude of the project location.                                                                                                           |
| Longitude (°)*                    | Auto-filled with the longitude of the project location.                                                                                                          |
| Max. ambient (°C)*                | Maximum ambient temperature in the place where the project is located. Range: 0 to 60.                                                                           |
| Min. ambient (°C)*                | Minimum ambient temperature in the place where the project is located. Range:- 40 to 30.                                                                         |
| Project scenario*                 | Select <b>Residential</b> or <b>Commercial</b> as needed.                                                                                                        |
| Grid type*                        | Select an option based on the actual number of phases and the voltage. For the voltage parameters, refer to the rated AC voltage of the specific inverter model. |
| Consumption (kWh)                 | Set the electricity consumption for the project, and select <b>Annual</b> or <b>Monthly</b> .                                                                    |



- Parameters marked with \* are required.
- To configure a project with microinverters, set the Project scenario to **Residential**, and ensure the selected **Grid type** is within the range supported by the microinverters, such as 1ph 220V.

**Step 2** (Optional) Configure **Customer information**: Enter the **Full name** and **Company**.

--End

## 5.1.2 Configure PV Modules

Complete all project information to configure modules.

**Step 1** Select a PV module type: **System module** or **Customize module**.



Note: For users who access quick design via Visitor login, only **System module** can be selected.

If system modules do not meet your requirements, you can customize modules.

Select **Customize module**. Click  on the right. See [6 Custom Module](#) for details.

**Step 2** Select a module manufacturer from the **Manufacturer** drop-down list. Select a module model from the **Model** drop-down list. Click  to view module details.



For projects involving microinverters, modules with the following power ranges are recommended:

- S1600S/S800S/S450S: 375 W–570 W modules.
- S1000S: 375 W–650 W modules.

**Step 3** Set the number of modules in **Modules**.

**Step 4** Select a mounting type. Options include: **Flush mount**, **Tilt**, and **Dual tilt**.

If **Tilt** is selected, set the **Roof azimuth(°)** and **Roof tilt(°)**.

If **Dual tilt** is selected, set the **Ridge direction** and **Relative tilt**.

**Step 5** If there are multiple PV arrays, click **Add PV array** and refer to steps 2–4 for parameter configuration.



To rename an array, click the  icon on the right and click anywhere outside the field to save the settings.

--End

### 5.1.3 Electrical Design

Electrical design includes electrical configuration and plan configuration.

**Step 1 Electrical configuration:** Based on site conditions, select **Configure microinverter**, **Configure optimizer**, **Configure RSD**, or **Configure battery**, and set the **Target DC/AC ratio**.

Electrical configuration ⓘ

☐ Configure microinverter

☒ Configure optimizer

Optimizer-to-module ratio: 1:2

Optimizer model: SPI200D

☐ Configure RSD ⓘ

☐ Configure battery ⓘ

\* Target DC/AC ratio: 1,2

- If **Configure microinverter** is selected, other options cannot be selected simultaneously, and the **Target DC/AC ratio** is 1:1 by default.
- If **Configure optimizer** is selected, set the **Optimizer type** and **Optimizer model** according to the project.
- If **Configure battery** is selected, enter the **Total capacity (kWh)**. The system will recommend an actual capacity based on the **total capacity**.



**Total capacity (kWh)** is a required parameter. To ensure energy balance and system stability, the recommended actual capacity may differ from the target capacity. If this does not meet your requirements, you can manually adjust the plan.

**Step 2 Electrical design:** Based on project conditions, select a system-recommended plan or customize the plan according to actual inventory or preferences.

Electrical design

The following is a default solution recommended by the available inventory system. You may customize it based on actual stock or your preferences.

[Do not remind again](#)

**Precise DC/AC ratio**  
 Closest match to target ratio

**Most economical**  
 Reduce inverter cost and avoid capacity surplus

**Maximize string use**  
 Maximize PV modules' output power

DC/AC ratio: 1,22/1,2    Inverters: 8 pcs    Module quantity: 800/800 pcs

| Inverter model | Number of inverters | Modules | DC/AC ratio |
|----------------|---------------------|---------|-------------|
| SG40CX         | 7                   | 735     | 1,22        |
| SG25CX-P2      | 1                   | 65      | 1,21        |

[Customize](#)

Cancel Confirm

- **Precise DC/AC ratio:** Closest match to the target DC/AC ratio.
- **Most economical:** Reduce inverter cost and avoid capacity waste.
- **Maximize string use:** Maximize PV modules' output power.
- **Customize:** Click **Customize** for any recommended plan to perform a custom design. You can modify, delete, add, or clear configurations.

Electrical design ×

**Precise DC/AC ratio**  
Closest match to target ratio

**Most economical**  
Reduce inverter cost and avoid capacity surplus

**Maximize string use**  
Maximize PV modules' output power

**Custom**  
Make it your own ✱

DC/AC ratio: 1,22/1,2    Inverters: 8 pcs    Module quantity: 800/800 pcs Clear all

| Inverter model                                                                             | Number of inverters | Modules                                  | DC/AC ratio | Action |
|--------------------------------------------------------------------------------------------|---------------------|------------------------------------------|-------------|--------|
| SG40CX <span style="float: right;">▼</span>                                                | 7                   | 735<br><small>Range: [105 ~ 896]</small> | 1,22        |        |
| SG25CX-P2 <span style="float: right;">▼</span>                                             | 1                   | 65<br><small>Range: [11 ~ 80]</small>    | 1,21        |        |
| <div style="border: 1px solid #ccc; display: inline-block; padding: 5px 20px;">+ Add</div> |                     |                                          |             |        |

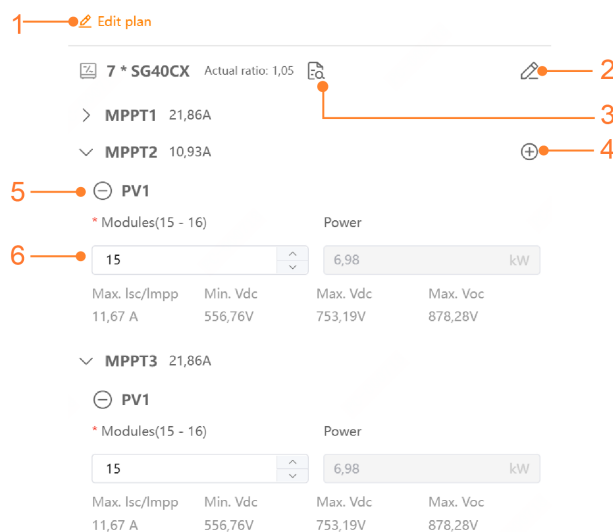
Cancel
Confirm



- System-recommended plans may vary based on module quantity and inverter power. If the number of modules or inverter power exceeds the upper limit, no recommended plan will be provided, and you can create a custom design.
- If no inverters are compatible with the current configuration, please modify the configuration list: country, grid type, PV configuration, and electrical settings.

**Step 3** Click **Confirm** to go to **Quick design** and view the generated plan.

**Step 4** Adjust the plan content on the generated plan page if needed.

**Table 5-1** Operation Instructions

| No. | Description                                                                     |
|-----|---------------------------------------------------------------------------------|
| 1   | Click to open the <b>Electrical design</b> window to edit the overall plan.     |
| 2   | Click to open the <b>Electrical design</b> window to edit the current inverter. |
| 3   | Click to open the device details page.                                          |
| 4   | Click to add strings to the current MPPT.                                       |
| 5   | Click to delete the current string.                                             |
| 6   | Edit the number of modules within the recommended range.                        |

--End

#### 5.1.4 Generate Report

After completing the operations specified in [5.1.1 Project Information](#), [5.1.2 Configure PV Modules](#), and [5.1.3 Electrical Design](#), click **Save and generate report**.

**Disclaimer**

This report is made based on the Sungrow Power Supply Co., Ltd. algorithm. Actual yield of your PV plant may vary depending on weather, PV module efficiency and other factors.  
The simulation results are for reference only. Sungrow Power Supply Co., Ltd. reserves the right of final interpretation.

**General information**

Name: Bastifassbenderquick  
Client: Sebastian Fassbender  
Designer: Vector

Address: Bachstraße 5, 58579 Schalksmühle, Germany  
Scenario: Residential  
Design time: 2025-08-26 15:35:46

**Data overview**

**20 kVA**  
Total AC power



**0,96**  
DC/AC ratio



**45**  
PV module



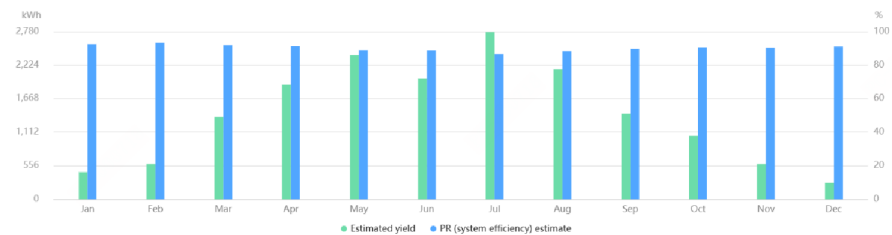
**19,14 kWp**  
Total DC power



**16,91 MWh**  
Annual yield

**Bill of materials (BOM)**

| Type                             | Manufacturer        | Model                                      | Quantity |
|----------------------------------|---------------------|--------------------------------------------|----------|
| Residential and string inverters | SUNGROW             | SH20T                                      | 1        |
| Battery                          | SUNGROW             | SBR256                                     | 1        |
| PV module                        | Trina Solar Limited | Vertex S+ TSM-NEC9.28 400-425W (A U), 425W | 45       |

**First year yield & system PR forecast****String information**

| Inverter                | MPPT  | String | Number of modules | Max. ISC | Min. Vdc | Max. Vdc | Max. Voc |
|-------------------------|-------|--------|-------------------|----------|----------|----------|----------|
| 1 * SH20T<br>1 * SBR256 | MPPT1 | PV1    | 15                | 12,58    | 479,41   | 614,88   | 716,1    |
|                         | MPPT2 | PV1    | 15                | 12,58    | 479,41   | 614,88   | 716,1    |
|                         | MPPT3 | PV1    | 15                | 12,58    | 479,41   | 614,88   | 716,1    |

**PV array parameters**

| Name       | Mounting type | Quantity of modules | DC power(kW) | Angle[°]  |              |
|------------|---------------|---------------------|--------------|-----------|--------------|
| PV array 1 | Flush mount   | 45                  | 19,13        | Roof tilt | Roof azimuth |
|            |               |                     |              | 34        | 170          |

**Social contribution**

**16.861,11 kg**  
CO<sub>2</sub> reduction



**913,24 kg**  
Save standard coal



**6.832,39 trees**  
Equivalent trees planted

Cancel

Save

Save and download



If microinverters are configured, the BOM also includes microinverter accessories.



## Bill of materials (BOM)

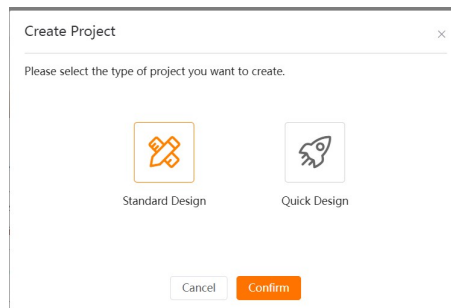
**1. Precautions**

1. If not all PV modules can be connected, PV1 must be connected to avoid microinverter fault and shutdown.
2. The number of public connectors depends on site layout. It is recommended to bring spare connectors during installation.
3. Do not lose the unlock tool. It is recommended to bring spare tools during installation.
4. If a single bus exceeds the max capacity, you can add more buses and configure them in the same manner.

| Type                         | Manufacturer        | Model                                                | Quantity |
|------------------------------|---------------------|------------------------------------------------------|----------|
| Microinverter                | SUNGROW             | S450S                                                | 1        |
| Microinverter                | SUNGROW             | SI600S                                               | 11       |
| PV module                    | Trina Solar Limited | Vertex S+ TSM-NEG9.28 400-425W (A U) <sub>425W</sub> | 45       |
| Microinverter accessory list | --                  | --                                                   | 25       |
| T-type AC bus - 2.8m         | SUNGROW             | MEC-2.8T01                                           | 12       |
| AC male connector            | SUNGROW             | MC-M01                                               | 4        |
| T-type connector             | SUNGROW             | MIC-T32A01                                           | 4        |
| T-connector sealing cap      | SUNGROW             | MC-EC01                                              | 4        |
| Terminal removal tool        | SUNGROW             | MIT-DT01                                             | 1        |

## 5.2 Standard Design

Log in to your iSolarDesign account and click **Create Project** in the upper right corner of the screen. Then, choose **Standard Design > Confirm** to open the page for standard design.



The work flow of standard design and report output is shown below:

1 General Information — 2 Plant Modelling — 3 View Module Layout — 4 Electrical Design — 5 Electricity Consumption E... — 6 Economic Analysis — 7 Generate Report

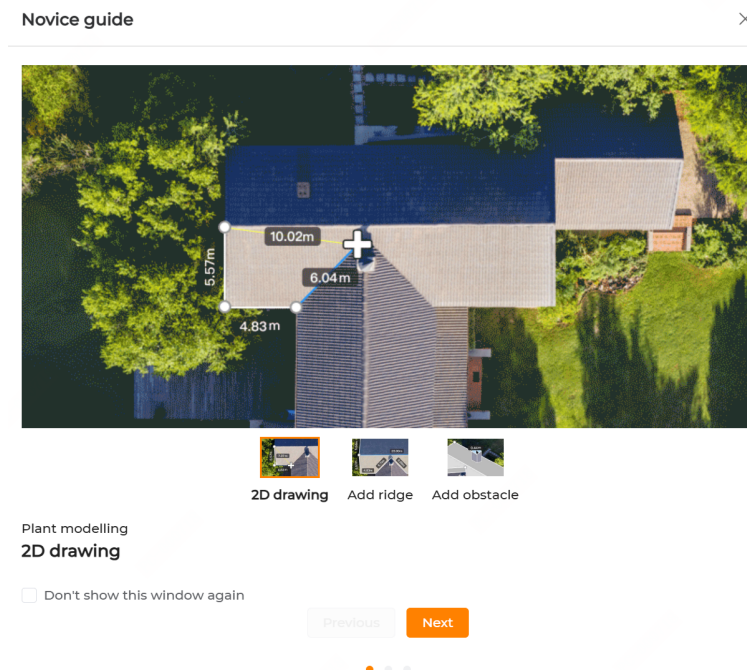
| Name                | Description                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| General Information | Fill in basic information of the project. See <a href="#">5.2.1 General Information</a> for details.           |
| Plant Modeling      | See <a href="#">5.2.3 Plant Modeling</a> for details on how to draw graphics and switch between 2D/3D display. |
| View Module Layout  | See <a href="#">5.2.4 View Module Layout</a> for details on how to configure PV modules on the roof.           |

| Name                               | Description                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical Design                  | Here you can complete the inverter and string configuration and check the DC- and AC-side cable loss. See <a href="#">5.2.5 Electrical Design</a> for details.              |
| Electricity Consumption Evaluation | It provides forecasts for future electricity use and bills based on current consumption patterns. See <a href="#">5.2.6 Electricity Consumption Evaluation</a> for details. |
| Economic Analysis                  | It provides plant design cost estimation based on the provided project cost details. See <a href="#">5.2.7 Economic Analysis</a> for details.                               |
| Generate Report                    | It is used to display the project overview and layout. The report can be downloaded to local. See <a href="#">5.2.8 Generate Report</a> for details.                        |

### 5.2.1 General Information

#### Prerequisite

#### Novice Guide



After clicking **Standard design** and **Confirm**. The **Novice guide** window will pop up. Click **Next** to view the usage of every function. If **Don't show this window again** is selected, the **Novice guide** window will no longer appear.

**Step 1** Fill in **General information** of the project.

## Project info

### General information

\* Project name

\* Project address

\* Latitude(°)

\* Longitude(°)

\* Street

\* City

Postal code

Country/region

\* Project type

☒ Residential ☐ Commercial

\* Grid connection type



| Parameter        | Description                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project name*    | User-defined name for the project.                                                                                                                             |
| Project address* | Set the detailed address of the project site. You can roll the wheels on your mouse to zoom in or out and drag the map to aim the site with the location icon. |
| Latitude (°)*    | Auto-filled with the latitude of the project location.                                                                                                         |
| Longitude (°)*   | Auto-filled with the longitude of the project location.                                                                                                        |
| Street, City*    | The street and city where the project is located, which can be automatically generated after the project address is confirmed.                                 |
| Postal code      | The postal code of the user's address.                                                                                                                         |
| Project type*    | Select <b>Residential</b> or <b>Commercial</b> as needed.                                                                                                      |

| Parameter             | Description                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| Grid connection type* | Select <b>100% feed-in</b> , <b>Self-consumption</b> , <b>Zero export</b> , or <b>Off-grid</b> as needed. |



Parameters marked with \* are required.

## Step 2 Fill in Ambient temperature.

**Ambient Temperature**

\* Min. Ambient[°C]  \* Max. Ambient[°C]

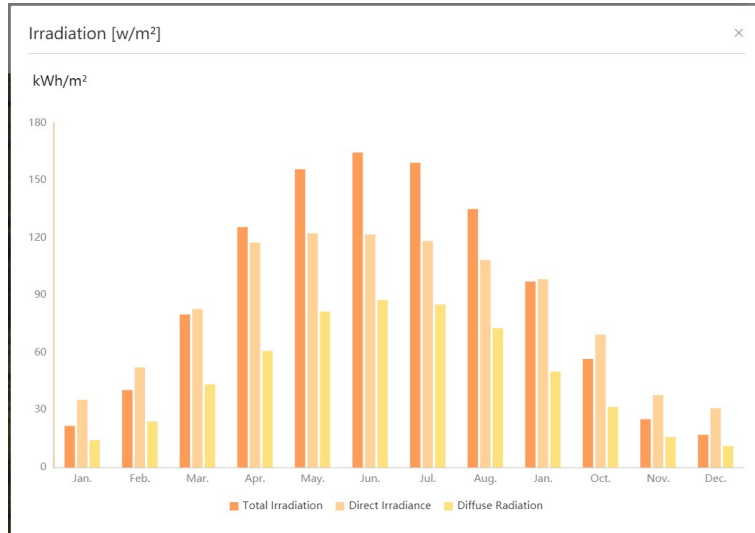
☐ Irradiance Factor  \* Surface Reflectivity

| Parameter                                           | Description                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Min./Max. ambient*                                  | The lowest/highest ambient temperature allowed at the project location.<br>After the project location is set, the minimum/maximum temperature of the project location is automatically filled in. You can also fill in the temperature in the input box.                                                                                                   |
| Irradiation data, Wind speed data, Temperature data | After filling in the address, click <b>Irradiation data</b> , <b>Wind speed data</b> , and <b>Temperature data</b> to see the estimated value of the data for one year.                                                                                                                                                                                    |
| Irradiance factor                                   | When bifacial modules are used, the light that is reflected to the back of the module can also be absorbed, affecting the photocurrent magnitude and the efficiency of the bifacial module. It is not selected by default. If it is selected, the factor is used to calculate the DC power of the configured inverter. The factor can be defined by users. |
| Surface reflectivity*                               | The ratio between solar radiation reflected by Earth's surface and solar radiation incident at the surface.<br>The default value is 0.2. Valid range: 0–1 (excluding 1).                                                                                                                                                                                   |



Parameters marked with \* are required.

**Irradiation data** includes direct normal irradiance (DNI), diffuse horizontal irradiance (DHI), and global horizontal irradiance (GHI). GHI is defined as the total solar radiation received on a horizontal surface at ground level, including both direct radiation (DNI) and diffuse radiation (DHI). Formula:  $GHI = DHI + (\cos \theta \times DNI)$  (where  $\theta$  is the solar zenith angle,  $0^\circ$  indicates the sun's rays are vertical to the ground, and  $90^\circ$  indicates the rays are parallel to the ground.)



**Step 3** Select the **Grid type**. Click  and select an option based on the actual number of phases and the voltage. For the voltage data, refer to the rated AC voltage of the specific model of the inverter.

\* Grid Type ⓘ

3ph380 V 

**Step 4** (Optional) Fill in the **Customer information**, including the customer's **Full name** and **Company**. You can also add remarks here.

**Step 5** (Optional) Upload **Attachment**: Select a file or drag it into the attachment box to upload it. The uploaded file can be downloaded to local.

**Step 6** Click **Next** to finish the project configuration.

--End

## 5.2.2 Uploading Map

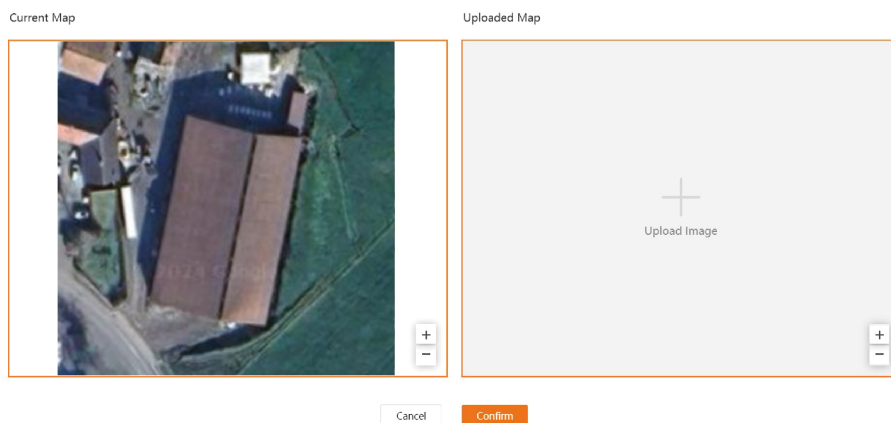
### Prerequisite

If the roof image taken from the map does not assist the user in drawing the roof, the user can upload the map for adjustment.



Before uploading the map, input the project address to determine the roof image.

**Step 1** Click to upload the map. The interface is shown in the figure below.



**Step 2** Click **Upload image** and select a local image.

**Step 3** After uploading the map, place the two anchor points and on the current map and the uploaded map at the same positions to mark the same coordinates.

**Step 4** Click **Confirm**.

--End

### 5.2.3 Plant Modeling

Use **Plant modeling** to draw graphics on the selected pictures, including drawing the edges of the roof and obstacles on the roof, adjusting the scale, removing the background, and switching between 2D/3D, etc. The interface is shown below:



A. Operation bar

B. Drawing area

C. Map

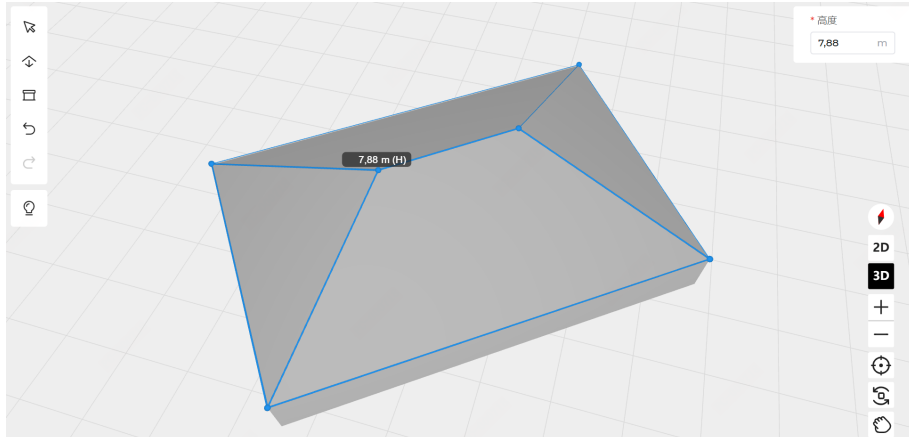
### Operation Bar

-  : Select. Click to select a line segment or a point and drag and drop it.
  - In 2D view: You can modify the length of a selected line segment, or drag an endpoint or line segment in any direction to adjust the roof area shape.



- In 3D view: You can modify the roof height in three methods:

- Drag a selected line segment up or down to raise or lower the two points on that edge by the same distance.
- Double-click an endpoint and drag it up or down to move the entire roof up or down by the same height. Rooftop obstacles will be automatically recalculated and adjusted based on the new height.
- Select an endpoint and enter a height value.



- Hold Ctrl button and click to select a single point, a single line segment, single obstacles or to select them in batch in the drawing area.
  - : Draw.
    - Click to draw line segments on the picture. You can view the length and angle of the current line segment in real time in the upper right corner of the interface. Hold Shift to draw horizontal or vertical lines.
    - Select any points on two edge lines to draw the ridge line.
  - : Use it to create rectangles.
  - : Obstacle. Click to draw obstacles on the picture.
- In 2D view, you can copy, paste, rotate, and move obstacles.
- : Scale. Click and select a line segment to modify the length, and the remaining line segments and obstacles will be scaled accordingly.
  - : Delete. Click to delete the selected object.
  - : Background. Click to remove the background or keep the background.
  - : Undo. Click to go back to the previous step.
  - : Redo. Click to resume the undo step.
  - : Zoom in. Click to enlarge the drawing area.
  - : Restore. Click to restore to the initial state.



## Drawing Area

A 2D view of the project location is displayed by default. If you upload a map in **Project info**, the satellite map is displayed overlapping with the uploaded map according to the positioning points.

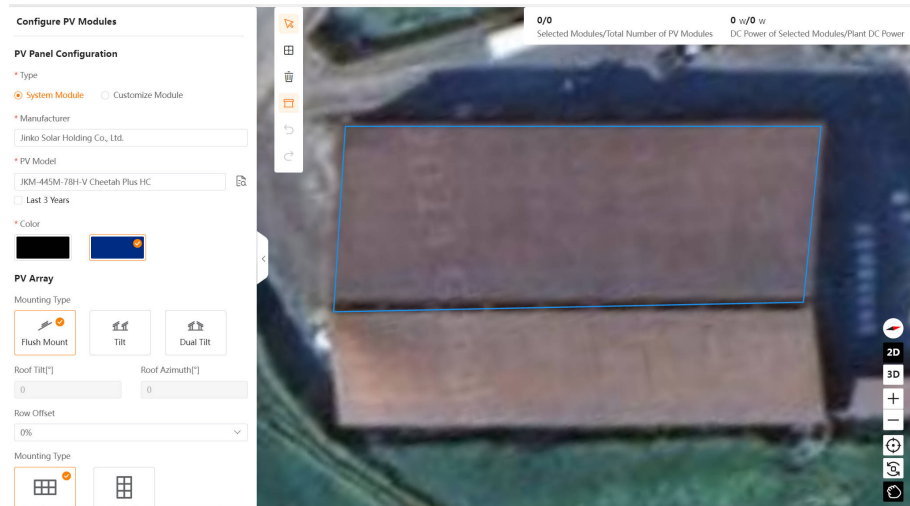
### Map

-  : Orientation, indicating the orientation of the current view. The view automatically adjusts to north up and south down when you click it.
-  : 2D view. Click to switch to the 3D view.
-  : 3D view. Click to switch to the 2D view.
-  : Reset the view. Click to reset the orientation of the view, and place the drawing area in the middle of the picture.
-  : Zoom in. Click it to or scroll the mouse wheel forward to zoom in the view.
-  : Zoom out. Click it or scroll the mouse wheel back to zoom out the view.
-  : Rotate the view. After clicking it, press and hold the left mouse button in the drawing area to rotate the view.
-  : Move horizontally. After clicking it, press and hold the left mouse button to move the view.
-  : Reset the height. In the 3D view, click to reset the height of all objects in the drawing area.

## 5.2.4 View Module Layout

### Prerequisite

**View Module Layout** allows you to deploy PV modules on the roof drawn in [5.2.3 Plant Modeling](#).



### Step 1 Fill in PV panel configuration.

- Set the type of the PV module. You can select **System module** or **Customize module**.



In case the system module cannot meet your requirements, you can select **Customize module** and tap  on the right to add a custom module. For details, see [6 Custom Module](#).

- Click the drop-down list of **Manufacturer** and select the module manufacturer.
- Click the drop-down list of **PV model** and select the module model. You can click  to view the detailed information about the selected module.
- Tick **Color**.
- Turn on or off **Loss analysis** as needed. This function is turned off by default. If it is turned on, set the **Dust loss**, **Diode loss**, and **Backsheet irradiation loss**.

### Step 2 Fill in PV array.

- Tick **Mounting type**: Select **Flush mount**, **Tilt**, or **Dual tilt** based on the roof orientation.
  - Select **Row offset** for **Tilt**;
  - Fill in **Azimuth**, **Tilt angle**, **Frame size**, and **Altitude** in the **Tilt** field;
  - Fill in **Ridge direction** and **Relative tilt** in the **Dual tilt** field.
- Set the module layout as **Landscape** or **Portrait**. Fill in the **Column spacing**, **Row spacing**, and **Distance from obstacles/line**.

**Step 3** Select the roof. You can then choose **Arrange automatically** and hold the left mouse button and drag on the roof to create PV modules as you want, or choose **Arrange automatically** to cover the roof with modules in one click. Click **Arrange automatically** to fill the roof with modules.



When choosing **Arrange manually**, click  to draw a guide line to divide the roof into different areas to for module configuration as shown above.



**Step 4** Click **Configure PV modules**, and then click **Next**.

--End

## 5.2.5 Electrical Design

Go to "Electrical Design" after finishing PV module arrangement and complete the electrical configuration (DC and AC sides). After this, you can check the wiring distance between different devices and the power loss.

### 5.2.5.1 Electrical Configuration

**Step 1 Electrical configuration:** Based on site conditions, select **Configure microinverter**, **Configure optimizer**, **Configure RSD**, or **Configure battery**, and set the **Target DC/AC ratio**.

Electrical configuration

\* Target DC/AC ratio

1.2

Configure optimizer

Optimizer-to-module ratio

1:2

Optimizer model

SP1200D

Configure RSD

Configure battery

\* Total capacity(kWh)

10

Actual capacity : 0

- If **Configure optimizer** is selected, set the **Optimizer type** and **Optimizer model** according to the project.
- If **Configure battery** is selected, enter the **Total capacity (kWh)**. The system will recommend an actual capacity based on the **total capacity**.



**Total capacity (kWh)** is a required parameter. To ensure energy balance and system stability, the recommended actual capacity may differ from the target capacity. If this does not meet your requirements, you can manually adjust the plan.

--End

### 5.2.5.2 Inverter and String Configuration

**Step 1** Click **Start design** to open the **Electrical design** window.

**Step 2** Based on project conditions, select a system-recommended plan or customize the plan according to actual inventory or preferences.

- Precise DC/AC ratio: Closest match to the target DC/AC ratio.
- Most economical: Reduce inverter cost and avoid capacity waste.
- Maximize string use: Maximize PV modules' output power.
- Customize: Click **Customize** for any recommended plan to perform a custom design. You can modify, delete, add, or clear configurations.

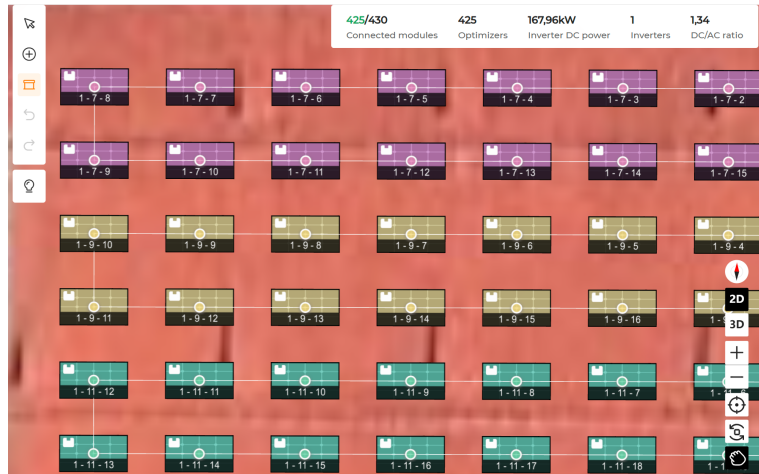


- System-recommended plans may vary based on module quantity and inverter power. If the number of modules or inverter power exceeds the upper limit, no recommended plan will be provided, and you can create a custom design.
- If no inverters are compatible with the current configuration, please modify the configuration list: country, grid type, PV configuration, and electrical settings.

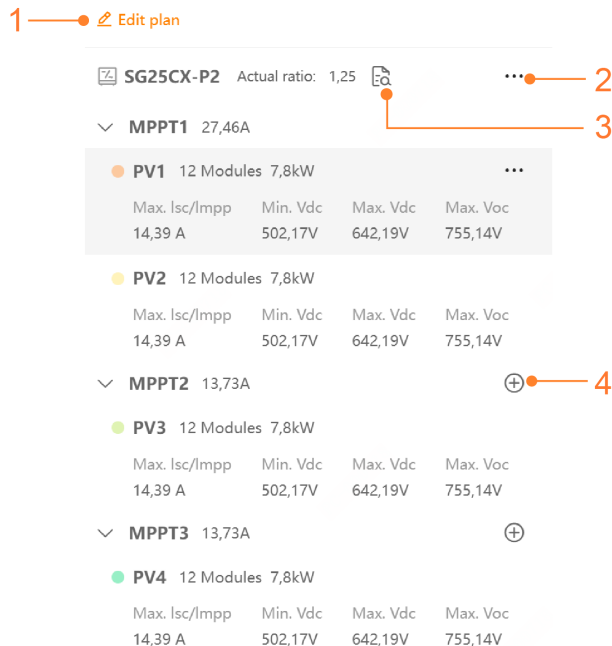
**Step 3** Click **Confirm**. The generated plan will be displayed on the page, and the component connections will be automatically created on the right.



If optimizers/RSDs are configured, short codes will be automatically generated for components on the right after the plan is generated, as shown in the following figure.



**Step 4** If needed, you can flexibly adjust the generated plan.

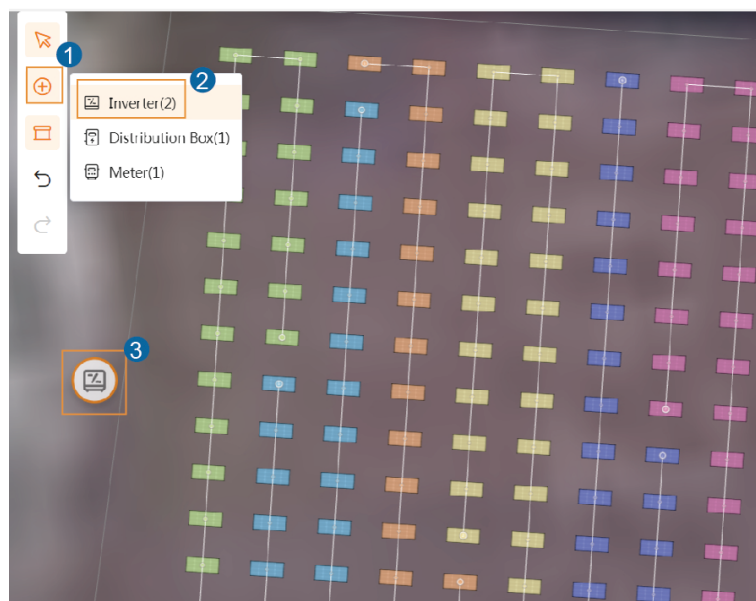


**Table 5-2** Operation Instructions

| No. | Description                                                         |
|-----|---------------------------------------------------------------------|
| 1   | Click to open the <b>Electrical design</b> window to edit the plan. |

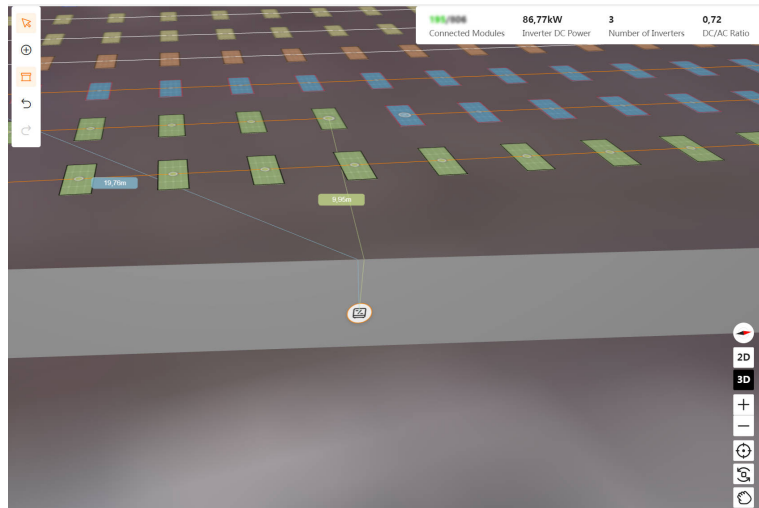
| No. | Description                                              |
|-----|----------------------------------------------------------|
| 2   | Click to clear or delete the current inverter or string. |
| 3   | Click to view device details.                            |
| 4   | Click to add a string to the current MPPT.               |

**Step 5** Click  in the toolbar to add other devices to the canvas and check the wiring.



You can drag and drop the device to a proper position in the canvas.  
After adding all inverters and distribution boxes/grid-connection cabinets to the canvas, you can view the power loss information.

**Step 6** Click **3D** to move the inverter to the wall and view the design in a 3D perspective.



**Step 7** Select a cable to check its power loss and other information. Below is an example of an AC cable.

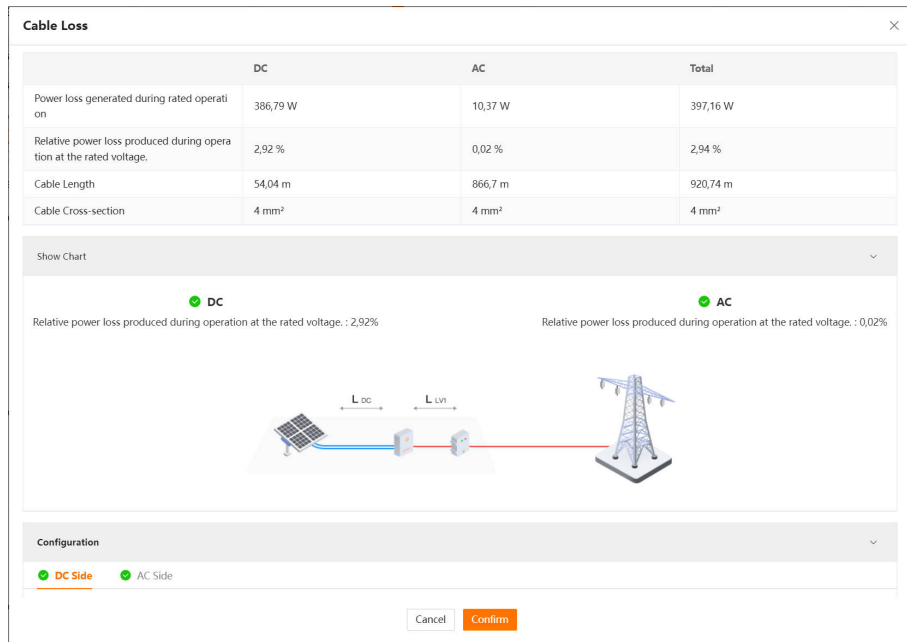
| AC                     |                                  |
|------------------------|----------------------------------|
| Power Loss(W)          | Cable Loss Rate(%)               |
| 1,26                   | 0                                |
| Resistance( $\Omega$ ) | Voltage Drop(V)                  |
| 0,02                   | 1,26                             |
| Cable Material         | Sectional Area(mm <sup>2</sup> ) |
| Copper                 | 4 mm <sup>2</sup>                |
| Length(m)              |                                  |
| 4,30                   |                                  |

--End

### 5.2.5.3 Cable Loss

Click **Loss Calculation** on the left to check the **Cable Loss**.

- **DC:** Cable loss from the module to the inverter.
- **AC** ☐ Residential: cable loss from the inverter to the power distribution box; commercial: cable loss from the inverter to the grid-connection point.



You can set the materials and specifications of the cables used on the DC side and AC side. The system will then calculate the **Resistance**, **Power Loss**, **Voltage Drop**, and **Cable Loss Rate** of the cables accordingly.



in the status column indicates an overly high cable loss. In this case, it is suggested to adjust the cable parameters or the position of the inverter.

### 5.2.6 Electricity Consumption Evaluation

The system can forecast future electricity use and predict electricity bills based on current consumption patterns.

1. Set the **Annual Consumption (kWh)**. The system will then calculate the **Average Monthly Consumption (kWh)**.
2. **Monthly Consumption** is calculated based on annual consumption and specific consumption scenarios. If the annual consumption data is updated, the monthly consumption will be recalculated accordingly.
3. Set the **Weekday Scenarios** and **Weekend Scenarios**, based on the periods of high electricity demand throughout the day.
4. Set the **Daily Average Consumption**, which is the ratio of weekend consumption to weekday consumption. This allows better consumption allocation between weekends and weekdays.
5. Once the settings are completed, you can view the forecast for monthly and daily electricity use on the right of the page.



**Consumption**

\* Annual Consumption (kWh)  Average Monthly Consumption

---

**Monthly Consumption**  
Total Consumption : 2,143 kWh

|                                                 |                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| * Jan.(kWh) <input type="text" value="212,75"/> | * Feb.(kWh) <input type="text" value="160,95"/> | * Mar.(kWh) <input type="text" value="142,45"/> |
| * Apr.(kWh) <input type="text" value="103,6"/>  | * May.(kWh) <input type="text" value="189"/>    | * Jun.(kWh) <input type="text" value="250"/>    |
| * Jul.(kWh) <input type="text" value="220"/>    | * Aug.(kWh) <input type="text" value="200"/>    | * Sep.(kWh) <input type="text" value="136,9"/>  |
| * Oct.(kWh) <input type="text" value="142,45"/> | * Nov.(kWh) <input type="text" value="172,05"/> | * Dec.(kWh) <input type="text" value="212,75"/> |

---

**Daily Consumption**

Weekday Scenarios  Weekend Scenarios

\* Daily Average Consumption (Weekend:Weekday)  :

## 5.2.7 Economic Analysis

You can provide the project cost details in **Economic Analysis** to check the estimated plant design cost.

Currency Unit : EUR ; Discount Rate 0 % , Do Not Pay Tax , Tax Rate 3 % . [Settings](#)

**Initial Installation Cost**

\* Initial Installation Cost Type  \* Total Device Cost(EUR)

---

**O&M Cost**

\* PV O&M Cost(EUR/W/Year)  \* Total O&M Cost(EUR/Year)

---

**Tariff Settings**

\* Power Purchase Tariff(EUR/kWh)  \* Feed-in Tariff(EUR/kWh)  \* Self Generation and Consumption Rate...

---

**Device List** [Add Device](#)

| Device Name            | Manufacturer | Model/Specification     | Quantity | Price | Total Price | Remarks | Action               |
|------------------------|--------------|-------------------------|----------|-------|-------------|---------|----------------------|
| String Inverter        | SUNGROW      | SG25CX-P2-V123          | 1        | --    | --          | --      | <a href="#">Edit</a> |
| String Inverter        | SUNGROW      | SG33CX-P2-V123          | 2        | --    | --          | --      | <a href="#">Edit</a> |
| Meter                  | SUNGROW      | SG Smart Meter          | 1        | --    | --          | --      | <a href="#">Edit</a> |
| Distribution Box       | --           | --                      | 1        | --    | --          | --      | <a href="#">Edit</a> |
| Cable Length (DC Side) | --           | 4mm <sup>2</sup> Copper | 866.7(m) | --    | --          | --      | <a href="#">Edit</a> |
| Cable Length (AC Side) | --           | 4mm <sup>2</sup> Copper | 54.04(m) | --    | --          | --      | <a href="#">Edit</a> |
| Jinko Solar H          |              |                         |          |       |             |         |                      |

1. Click **Settings** and set the **Basic Economic Parameters**.

| Parameter            | Description                                                           |
|----------------------|-----------------------------------------------------------------------|
| <b>Currency Unit</b> | Select the common currency in the place where the project is located. |

| Parameter                | Description                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Discount Rate (%)</b> | It is used to discount expected future earnings back to their present value. When the future earnings are certain, the lower the discount rate, the higher the present value. Changes in the discount rate will result in huge differences in asset valuation results. |
| <b>Pay Tax or Not</b>    | If <b>Yes</b> is selected, set the <b>Tax Rate (%)</b> .                                                                                                                                                                                                               |
| <b>Tax Rate (%)</b>      | National income tax rate.                                                                                                                                                                                                                                              |

2. Set the **Initial Installation Cost Type**.

| Type                     | Description                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Fixed Price</b>       | Enter the price in the input box.                                                                                                 |
| <b>Total Device Cost</b> | Provide the unit price of the device in <b>Device List</b> . The <b>Total Device Cost</b> will then be auto-filled by the system. |
| <b>Price per watt</b>    | Enter the price per watt in <b>PV System Cost</b> . The system will then calculate the total cost automatically.                  |

3. Set the **PV O&M Cost**: The annual operation and maintenance cost of the plant.

4. Set the **Power Purchase Tariff, Feed-in Tariff, and Self-consumption Rate**.

5. Click  in the action column of the **Device List** to add remarks for the device or set its unit price.

6. To add a new device, click **Add Device**, complete its basic information, and click **Confirm**.



Devices added in **Economic Analysis** can be deleted, while those added in **Electrical Design** cannot be deleted.

7. If any subsidies are granted by the government to the project, click **Add Government Subsidies** to add the relevant information.

| Subsidy Type                      | Description                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------|
| <b>Fixed Subsidy</b>              | a. Select "Yes" or "No" in <b>Pay Tax or Not</b> .<br>b. Set the <b>Max. Subsidy</b> . |
| <b>Based on Installation Cost</b> | a. Select "Yes" or "No" in <b>Pay Tax or Not</b> .                                     |

| Subsidy Type                       | Description                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <b>b.</b> Set the <b>Subsidy Proportion</b> .<br><b>c.</b> Set the <b>Max. Subsidy</b> .                                                                                                                                     |
| <b>Based on Yield</b>              | <b>a.</b> Select “Yes” or “No” in <b>Pay Tax or Not</b> .<br><b>b.</b> Set the <b>Subsidy Period (Year)</b> .<br><b>c.</b> Set the <b>Subsidy per kWh</b> .                                                                  |
| <b>Based on Installed Capacity</b> | <b>a.</b> Select “Yes” or “No” in <b>Pay Tax or Not</b> .<br><b>b.</b> Set the <b>ROI</b> (return on investment).<br><b>c.</b> Set the <b>Max. Subsidy</b> .                                                                 |
| <b>Based on Battery Capacity</b>   | This option is not available if there is no battery in the device list.<br><b>a.</b> Select “Yes” or “No” in <b>Pay Tax or Not</b> .<br><b>b.</b> Set the <b>Subsidy Amount</b> .<br><b>c.</b> Set the <b>Max. Subsidy</b> . |

## 5.2.8 Generate Report

After completing the above settings, go to the **Generate report** page.

The report includes the following information:

- General information and data overview

✓ General information   ✓ Plant modelling   ✓ View module layout   ✓ Electrical design   ✓ Electricity consumption...   ✓ Economic analysis   7 **Generate report**

**Report overview**

- General information
- Data overview
- First year yield & system PR forecast
- Revenue
- Tariff analysis
- Module layout
- Electrical wiring
- Social contribution

**Design report**

[Export to SolarCloud](#)

**Disclaimer**  
 This report is made based on the Sungrow Power Supply Co., Ltd. algorithm. Actual yield of your PV plant may vary depending on weather, PV module efficiency and other factors.  
 The simulation results are for reference only. Sungrow Power Supply Co., Ltd. reserves the right of final interpretation.

**General information**



Name: [REDACTED]  
Client: --  
Designer: Vector

Project address: [REDACTED]  
Scenario: Commercial  
Design time: 2025-08-20 08:48:00

**Data overview**


**125 kVA**  
 Total AC power


**1,34**  
 DC/AC ratio


**425**  
 PV module


**167,96 kWp**  
 Total DC power


**185,1 MWh**  
 Annual yield


**15,43 MWh**  
 Monthly yield

**Bill of materials (BOM)**

| Type            | Quantity                                                                            | Price | Cost              |
|-----------------|-------------------------------------------------------------------------------------|-------|-------------------|
| String inverter | SUNGROW SC125CK-P2                                                                  | 1     | 3.000             |
| Optimizer       | SUNGROW SP600S(L1)                                                                  | 425   | 10                |
| PV module       | Jinko Solar Holding Co., Ltd. Tiger Mono-facial 375-395Watt N Type_3KM3 95N-6RL3(V) | 425   | 20                |
| <b>Total</b>    |                                                                                     |       | <b>15.750 EUR</b> |

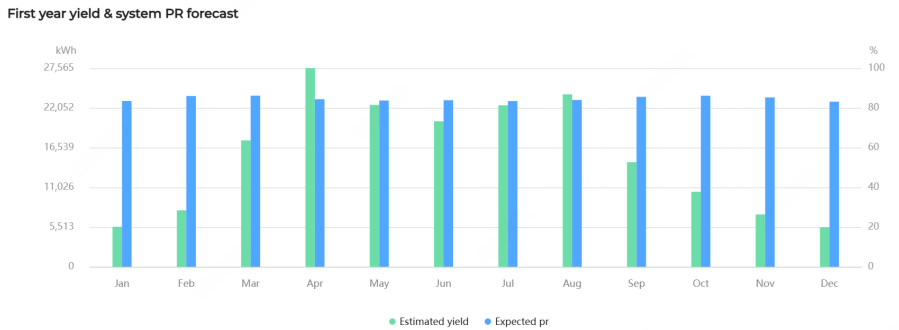
[Previous](#)
[Save](#)
[Save and download](#)

- Bill of materials (BOM)

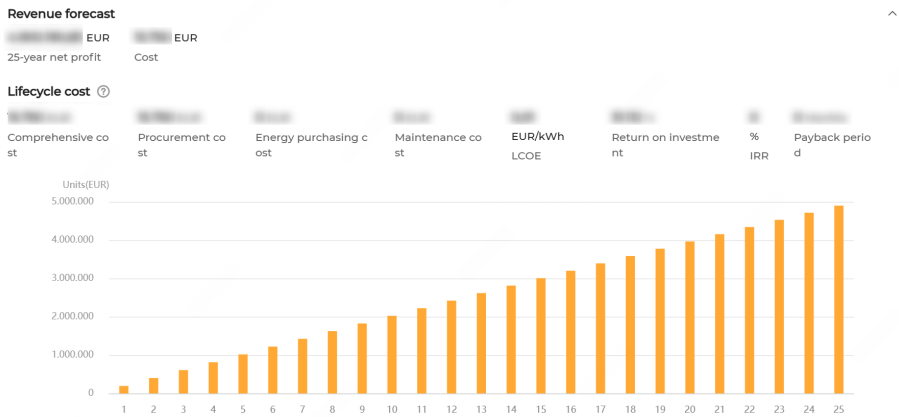
Bill of materials (BOM)

| Type            |                               |                                                        | Quantity | Price | Cost  |
|-----------------|-------------------------------|--------------------------------------------------------|----------|-------|-------|
| String inverter | SUNGROW                       | SG12SCX-P2                                             | 1        | 10000 | 10000 |
| Optimizer       | SUNGROW                       | SP600S[ti]                                             | 425      | 15    | 6375  |
| PV module       | Jinko Solar Holding Co., Ltd. | Tiger Mono-facial 375-395Watt N Type_JKM3 95N-6RL3(-V) | 425      | 15    | 6375  |
|                 |                               |                                                        | Total    | 10015 | 22750 |

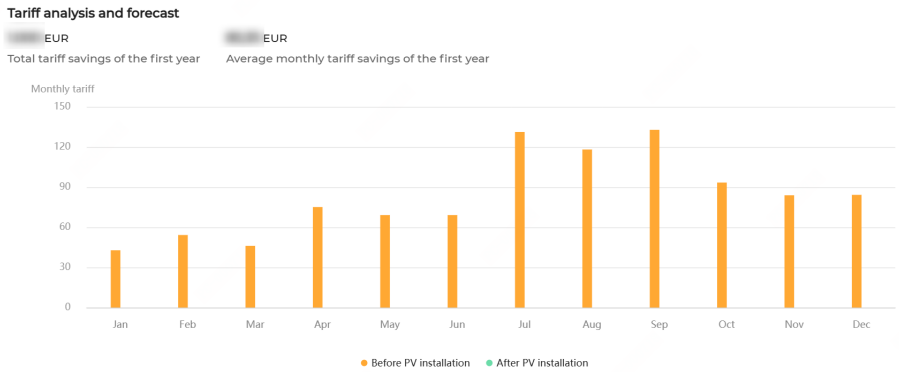
• First year yield & system PR forecast



• Revenue

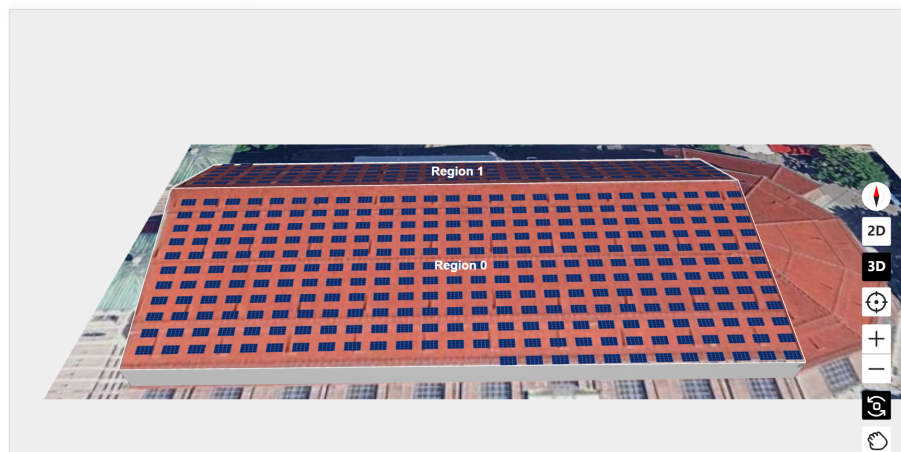


• Tariff analysis



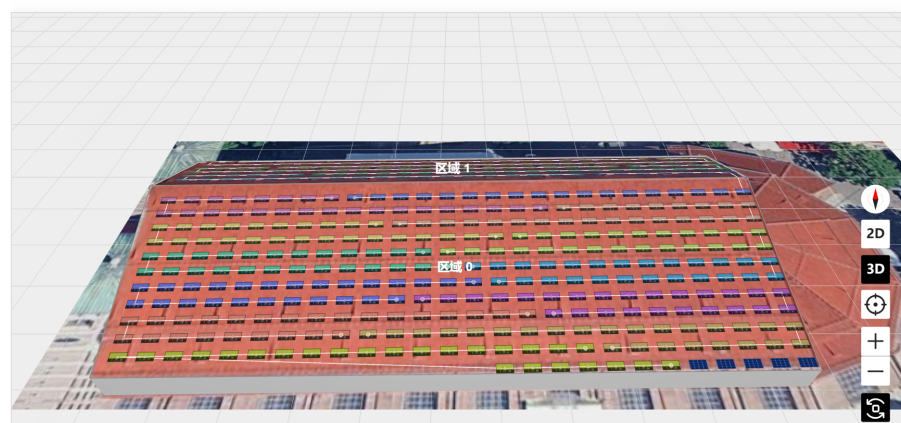
• Module layout

## Module layout

[Overview](#)[Roof 0](#)[Roof 1](#)

- Electrical wiring

电气接线效果

[下载布局图文件](#)[总览](#)[屋面0](#)[屋面1](#)

Design report

</

- Social contribution

| Social contribution                               |                                           |                                                   |
|---------------------------------------------------|-------------------------------------------|---------------------------------------------------|
| <b>185.095,07</b> kg<br>CO <sub>2</sub> reduction | <b>74.038,03</b> kg<br>Save standard coal | <b>9.254,75</b> trees<br>Equivalent trees planted |

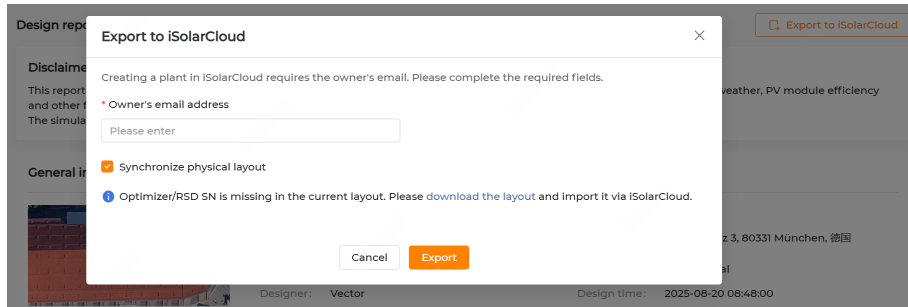
This page support the following functions:

- Customize report content: Click the **Custom** icon in the upper left corner to select the information you want.
- Save and download: Click **Save and download** to save the report locally.
- Export to iSolarCloud: If optimizers/RSDs are configured in the project, you can export the project information and physical layout to iSolarCloud.

### 5.2.8.1 Export to iSolarCloud

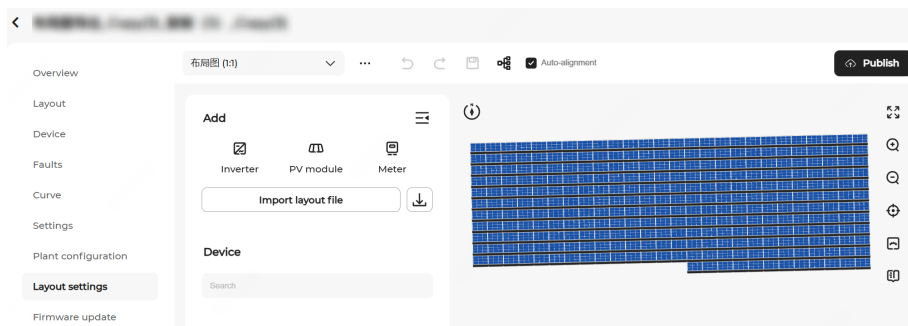
This section describes how to export project information and physical layout to iSolarCloud in scenarios with optimizers/RSDs.

**Step 1** Click **Export to iSolarCloud** in the upper right corner, enter the **Owner's email address**, and select **Synchronize physical layout** as needed. Then click **Export**.

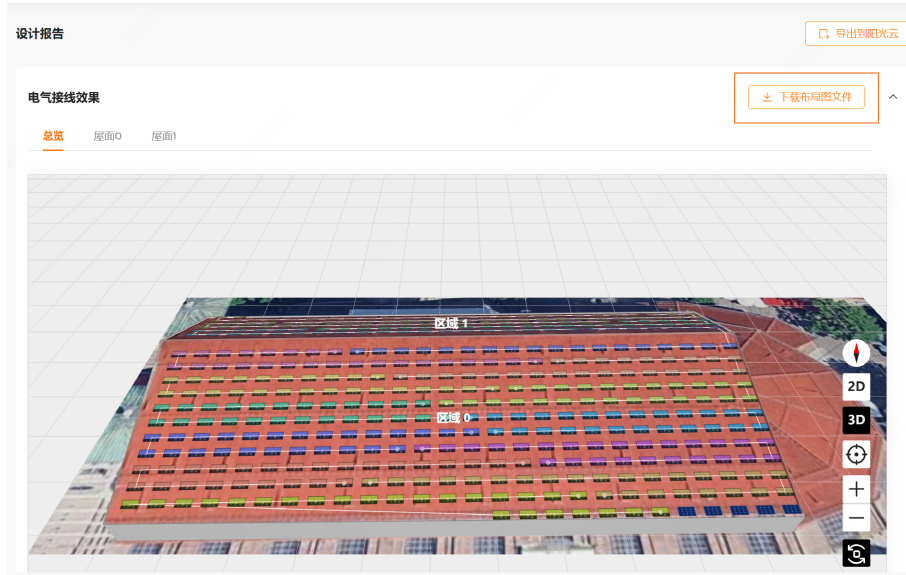


Project information and physical layout can only be exported once.

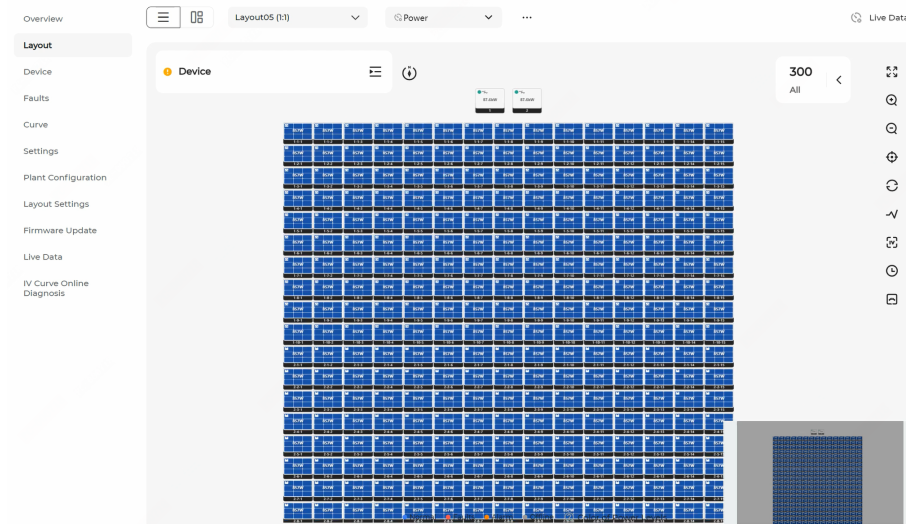
**Step 2** In iSolarCloud, you can view the imported general information and physical layout of the plant. (Note that optimizer/RSD short codes are not shown in the modules of the layout.)



**Step 3** On the **Design report** page of iSolarDesign, click **Download layout file** to download the layout file with optimizer/RSD short codes (in Excel format).



**Step 4** After entering the device S/Ns in the Excel file, import the layout file into iSolarCloud. The system will generate a physical layout with optimizer/RSD short codes, as shown in the following figure. For details, see *iSolarCloud User Manual*.



In addition to the above method, you can also import the information of a project in Completed status from iSolarDesign directly when creating a plant in iSolarCloud. For details, see *iSolarCloud User Manual*.



Create plant

Plant type

Residential PV

01 Plant information

02 Add communication device

03 Tariff

Basic plant information

Import plant from iSolarDesign >

Plant name

Please enter

PV installed power(kWp)

Please enter

Detailed address

Please select

Country/Region

Country/Region

Time zone

Please select

Grid connection type

Please select

Grid connection date

Please select

Postal code

Please enter

Plant image

+

Upload

Owner information

Assign an owner to the plant. You can use an email address that is new or already registered with iSolarCloud.

Owner's email address

Please enter

☐ I have obtained authorization from the owner to grant access to channel/partner services for the current plant.

Any third-party personal data submitted here must be authorized by the corresponding owner.

Assign an owner to the plant. You can use an email address that is new or already registered with iSolarCloud. Once the plant is successfully created, the system will automatically create an account for the plant owner and send it to both the owner and you via email. If the owner does not receive the system email, please forward it to them.

Other information

...

Next

Import plant from iSolarDesign

Please select a completed project in iSolarDesign to import plant information

Project name

Search

| Project name                              | Update time         | Address |
|-------------------------------------------|---------------------|---------|
| <input type="radio"/> 2025-08-12 18:03:45 | 2025-08-12 18:03:45 | ...     |
| <input type="radio"/> 2025-08-08 13:28:38 | 2025-08-08 13:28:38 | ...     |

Total 2

20/page

< 1 >

Go to 1

Cancel

Confirm

--End

## 6 Custom Module

You can add a custom module if a module beyond those provided in the system is required.

Log in to the iSolarDesign system, and click **Settings** at the top of the screen to go to the **Customize Module** page.

- Add one custom module

Click **Add Module**, set the parameters for the module, and click **Confirm**. The module will then be added.

Add Module

\* Manufacturer

Please Enter

\* Module Model

Please Enter

\* Voltage Temperature Coeff. [%/°C]

Please Enter

\* Permissible System Voltage [V]

Please Enter

\* Mpp Voltage [V]

Please Enter

\* Mpp Current [A]

Please Enter

\* Width(mm)

Please Enter

\* Length(mm)

Please Enter

\* Weight (kg)

Please Enter

\* Series Name

Please Enter

\* Maximum Power[Wp]

Please Enter

\* Open Circuit Voltage [V]

Please Enter

\* Short Circuit Current [A]

Please Enter

\* Current Temperature Coeff. [%/°C]

Please Enter

\* Power Temperature Coeff. [%/°C]

Please Enter

\* Work Temperature Range (°C)

Please Enter

\* High(mm)

Please Enter

Update Time

- Add custom modules in group

1. Click **Download Template** to download the template file to your local system, and fill in the module information.
2. Click **Import Template** to import the template that carries the module information. The modules will then be added.

- Delete one module

Click  in the Action column to delete the corresponding module.

- Delete modules in group

Select modules of different models, and click **Batch Delete** to delete them in group.

- Edit module information

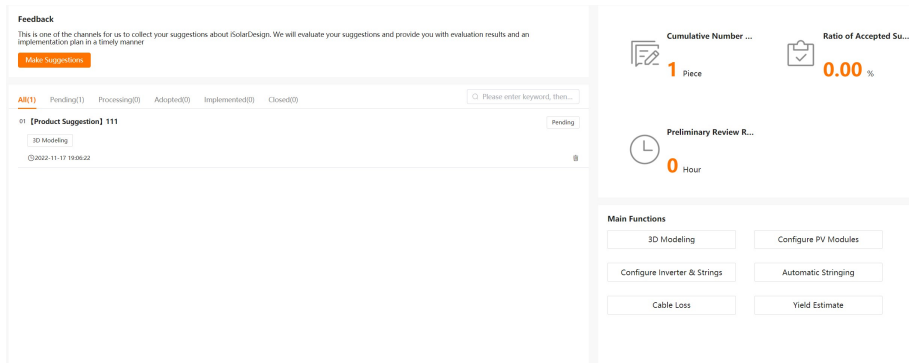
Click  in the Action column to edit the information about the corresponding module.

- View module information

Click  in the Action column to view the information about the corresponding module.

## 7 Feedback

Users can submit suggestions on the **Feedback** interface. Click  to enter the corresponding interface. Users can only view their own suggestions on this interface.



The screenshot shows the Feedback interface. On the left, there's a 'Feedback' header with a description: 'This is one of the channels for us to collect your suggestions about SolarDesign. We will evaluate your suggestions and provide you with evaluation results and an implementation plan in a timely manner.' Below this is a 'Make Suggestions' button. A list of suggestions is shown, with the first one being '[Product Suggestion] 111' in the 'Pending' state, dated '2022-11-17 19:08:22'. On the right, a dashboard shows 'Cumulative Number' as 1 Piece, 'Ratio of Accepted Suggestions' as 0.00%, and 'Preliminary Review' as 0 Hour. At the bottom, there are buttons for 'Main Functions': 3D Modeling, Configure PV Modules, Configure Inverter & Strings, Automatic Stringing, Cable Loss, and Yield Estimate.

### Add Feedback

Click  to enter the **Make Suggestions** interface, as shown in the following figure.

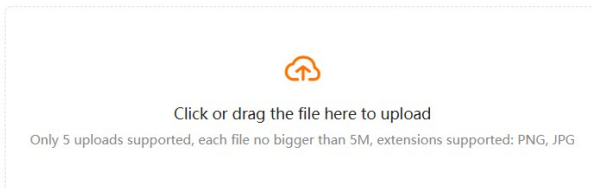
#### Make Suggestions

\* Suggestion... ☒ Product Suggestion ☐ Functional Problem ☐ Others

\* Functions...

\* Description

Attachment



Click or drag the file here to upload  
Only 5 uploads supported, each file no bigger than 5M, extensions supported: PNG, JPG

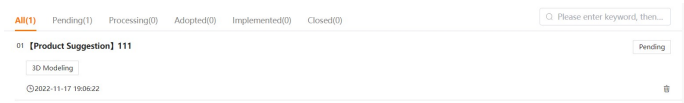


Select **Suggestion Type**, **Functions Involved**, and enter **Description**. Uploading **Attachment** is optional. Click **Submit**.



At most 5 attachments can be uploaded, and each file should be no more than 5M. Only PNG and JPG files are supported.

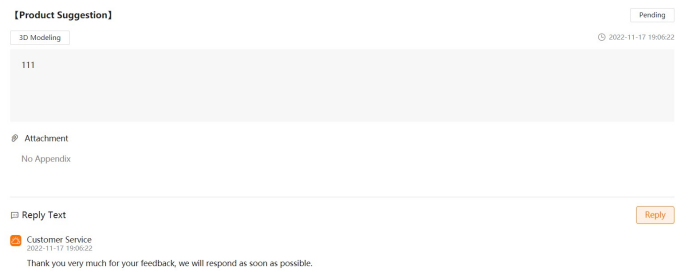
Feedback List



On this interface users can view the status and quantity of suggestions that have been submitted. The status includes **All**, **Pending**, **Processing**, **Adopted**, **Implemented**, and **Closed**.

Click  to delete the suggestion, while the administrator's reply will also be deleted.

Feedback Details



Click one of the suggestions to go to the **Details** interface. On this interface users can view the **Suggestion Type**, **Functions Involved**, **Description**, and **Attachment**.

Click  to reply to the customer service.

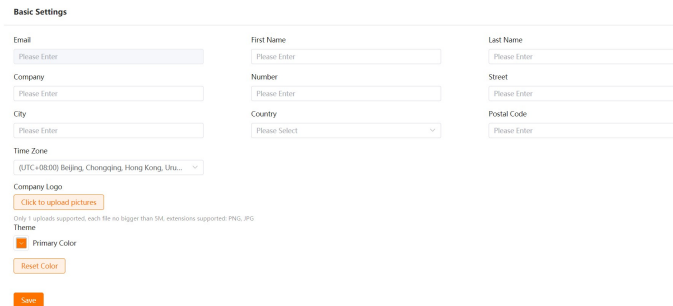


If there is no reply text, the user cannot reply to the customer service.

## 8 Personal Setting

**Personal Setting** consists of three functions: **Basic Settings**, **Security Settings**, and **Data Settings**.

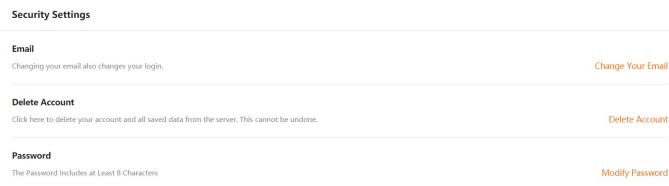
### Basic Settings



The Basic Settings form is divided into three columns. The first column contains fields for Email, Company, City, Time Zone (a dropdown menu), and Company Logo (with a 'Click to upload pictures' button and a note about file size and extensions). The second column contains fields for First Name, Number, and Country (a dropdown menu). The third column contains fields for Last Name, Street, and Postal Code. At the bottom, there is a 'Primary Color' selection with a 'Reset Color' button and a 'Save' button.

On this interface users can modify the basic information of the account.

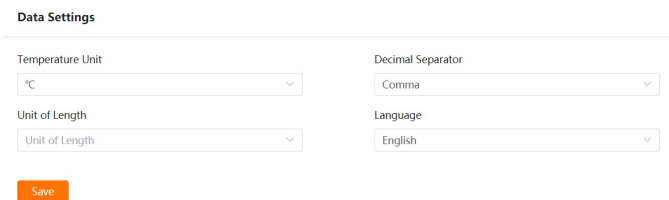
### Security Settings



The Security Settings form has three sections. The first section is 'Email' with a description 'Changing your email also changes your login.' and a 'Change Your Email' link. The second section is 'Delete Account' with a description 'Click here to delete your account and all saved data from the server. This cannot be undone.' and a 'Delete Account' link. The third section is 'Password' with a description 'The Password Includes at Least 8 Characters' and a 'Modify Password' link.

On this interface users can modify the email address, delete the account and change the password.

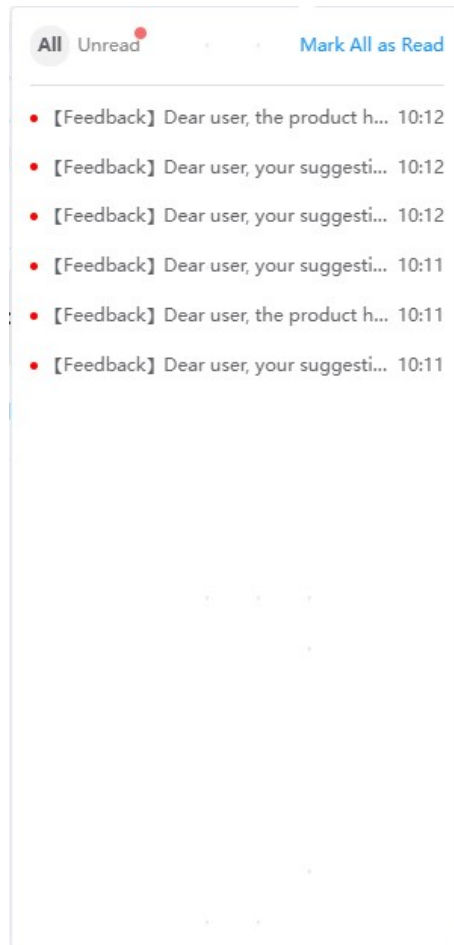
### Data Settings



The Data Settings form has two columns. The first column contains 'Temperature Unit' (a dropdown menu) and 'Unit of Length' (a dropdown menu). The second column contains 'Decimal Separator' (a dropdown menu) and 'Language' (a dropdown menu). At the bottom, there is a 'Save' button.

On this interface users can modify the **Temperature Unit**, **Decimal Separator**, **Unit of Length**, and **Language**. Click **Save**.

## 9 Messages



On this interface users can view system messages. The **All** tab is displayed by default. Users can click **Unread** to view unread messages.

Click **Mark All as Read** to change the status of all unread messages to read.

---

## 10 Contact Information

In case of questions about this product, please contact us.

For detailed contact information, please visit: <https://en.sungrowpower.com/contactUS>.

**SUNGROW**

Sungrow Power Supply Co., Ltd.

[www.sungrowpower.com](http://www.sungrowpower.com)