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Solis Design User Manual



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1 Overview

Solis Design is website, which is just used to design plant (It can't monitor the data of plant, and it isn't the official website of Ginlong Technologies).

The function is to design inverter, panel and cable. It also supports to select location, set tilt angle and azimuth angle, etc.

It's easy to use and most things are in the home page.

2 Instructions

2.1 Preparation

The address of Solis Design is <http://31.214.222.20:8888>. To use smoothly later, please add to favorites.

And you can get into the Solis Design by the link (see Picture 1) in official website (www.ginlong.com) of Ginlong Technologies.



Picture 1, link of Solis Design

2.2 Register

As a new user, it needs to register an account first.

After get to Solis Design (see Picture 2), you can see the link of "Register" in the lower part (see Picture 2). Click the link to get to Register page (see Picture 3). Then input the Email, Password and Confirm Password (Must make Confirm Password is same as Password). Click "Register" button then it will turn into "Return" page (see Picture 4), it displays that the register is OK. Then you can use the Email and password to login.



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Solis Design

User Login

Email:

Password:

Remember Me

Login

[Forget Password?](#)

[Register](#)

Picture 2, Login of Solis Design



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Register

Email:

Password:

Confirm Password:

Register

Picture 3, Register

Return

Picture 4, Return

2.2 Use wizard

2.2.1 Login

After register, return to Login page (see Picture 2), then input the Email and password when you register. Click to “Login” button to come in.

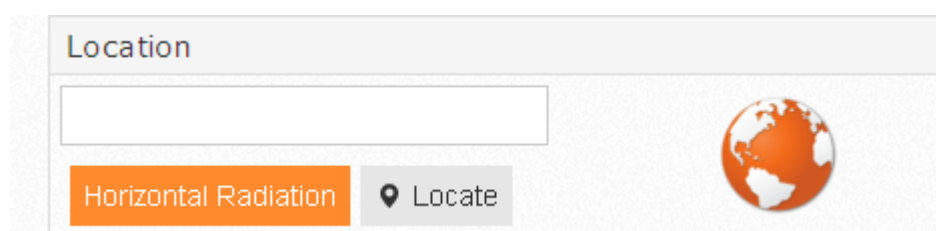


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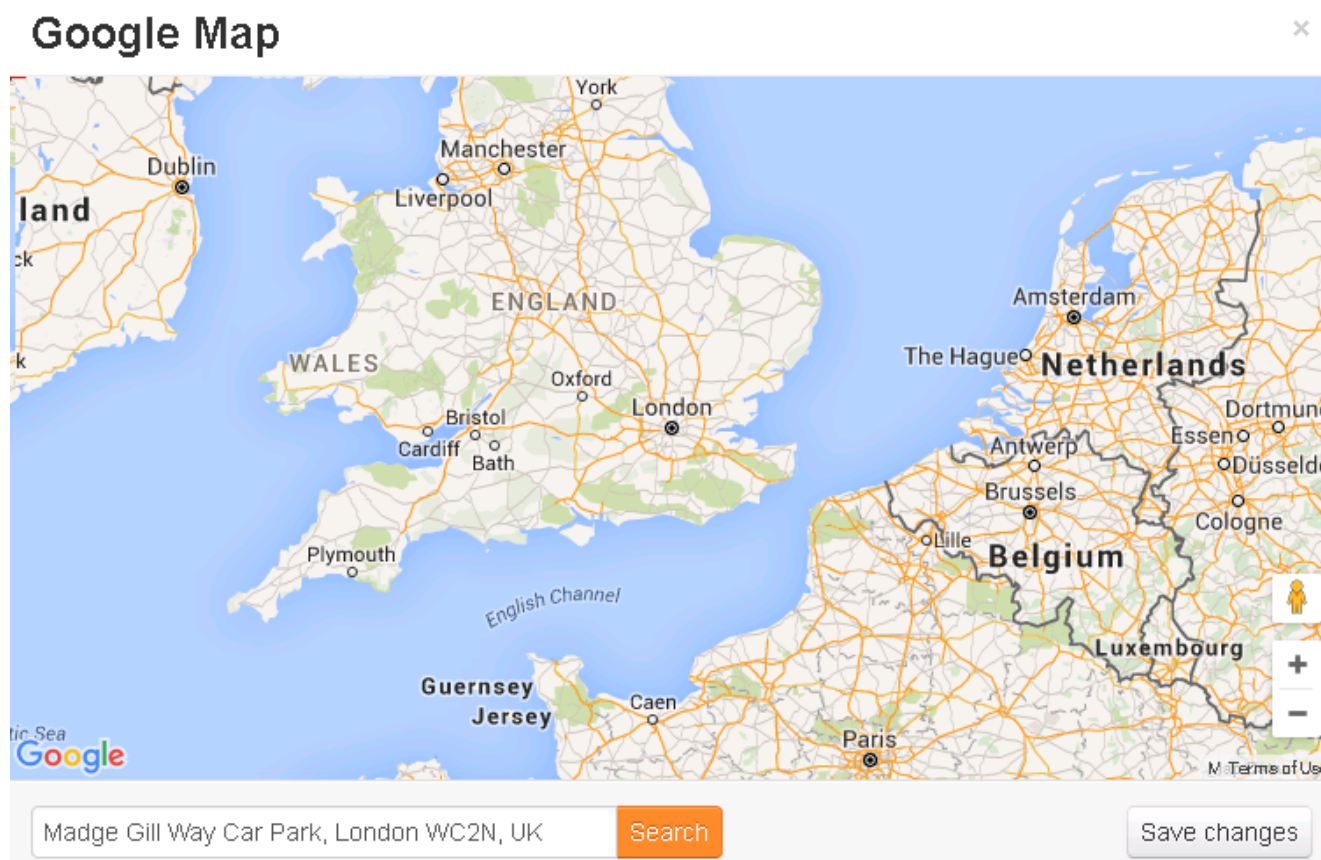
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2.2.2 Location

On the top, click the earth icon (see Picture 5) to open map (Chinese users use Baidu Map, Other users use Google Map). Then locate the location (see Picture 6) on the map and click “Save Changes” button to save the selected location.



Picture 5, Location



Picture 6, Locate on the map

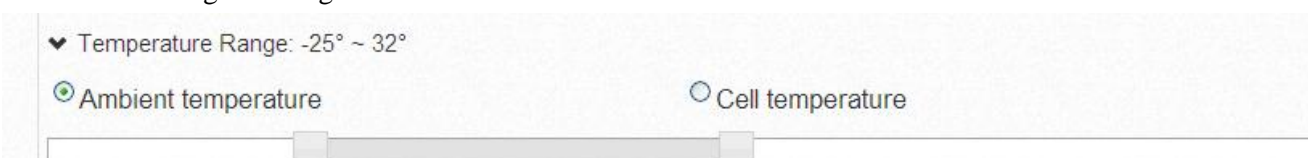
2.2.3 Set Temperature Range



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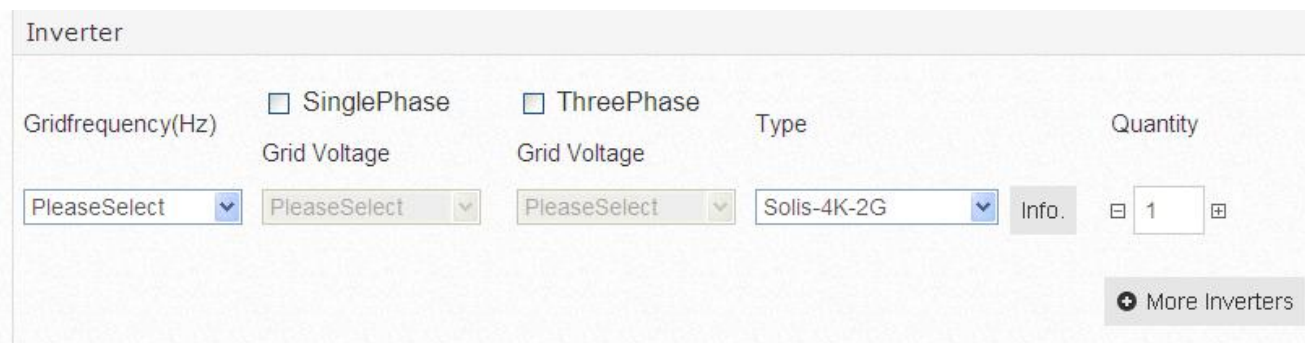
You can see the Temperature Range (see Picture 7) below location. If there is difference between the displayed range and actual range, you can click “Temperature Range” to show the temperature slider. Then you can move the slider to change the range.



Picture 7, Temperature Range

2.2.4 Set Inverter

You can see the Inverter (see Picture 8) below Temperature Range. First, select grid frequency (50 Hz or 60Hz). And check SinglePhase or ThreePhase (There are just these 2 kinds of inverters), then select the Grid Voltage. After that, you can select your inverter in Type list. At last set the Quantity of inverters. If you need another type inverter, click “More Inverters” button, and then do as above again.



Picture 8, Inverter

2.2.5 Inverter and Module setting

You can see the Inverter and Module setting (see Picture 9) below Inverter. If it has more than one type inverter, you click the inverter which you need to design.

Different inverters have different number of MPPT. Now just use MPPT-1 as example (the last is the same as it):

A. Select Manufacturer. Select the manufacturer (if you can't find, need create your own Module, see section 4.3) which you need in the Manufacturer list.

B. Select Module Type. Select the module type (if you can't find, need create your own Module, see section 3.2) which you need in the Module Type list.

C. Set Tilt angle. The default is optimized. If you need to change as your actual angle, please check the optimized checkbox first, and then select your angle in Tilt angle list.



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D. Set Azimuth angle. The default is optimized. If you need to change as your actual angle, please check the optimized checkbox first, and then select your angle in Azimuth angle list.

E. Set Number of Strings. Input the string number or click or (is to reduce, is to add).Attention: Must check the MPPT (See the matched MPPT check which you set) check (see Picture 10) in the check list in the right. And need to check the Total check (see Picture 11) at the bottom of check list.

F. Set Number of Modules Per String. Input the module number for each string or click or (is to reduce, is to add).Attention: Must check the MPPT (See the matched MPPT check which you set) check (see Picture 10) in the check list in the right. And need to check the Total check (see Picture 11) at the bottom of check list.

Picture 9, Inverter and Modules setting

| MPPT-1 | | |
|-----------|-------|-------------|
| Parameter | Value | Range |
| Vmpp[V] | 243 | ✓ 100 ~ 500 |
| Imp[A] | 8.22 | ✓ <15 |
| Voc [V] | 339 | ✓ <600 |
| Power[W] | 2180 | ✓ <4600 |

Picture 10, MPPT check



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| Total | |
|-----------------------------------|----------|
| Max.Allowed PV Power [W] | 4600 |
| Max.Allowed AC Power [W] | 4400 |
| Total Quantity of PV-module | 16 |
| Module Area [m ²] | 26.08 |
| DC input power [W] | 4360 ✓ |
| DC input power/Rated DC Power [%] | 105.73 ✓ |

70% 80% 110% 120%

Picture 11, Total check

2.2.6 Cable

Click the checkbox of DC cable Specification (see Picture 13) to show the detail cable settings. Then set the Cable Material, Cable Cross-Section Area and Single Cable Length.

DC cables Specification

| | | |
|--------------------------|---|---|
| Cable Material | <input type="text" value="Cu"/> | <input type="text" value="Cu"/> |
| Cable Cross-Section Area | <input type="text" value="4 mm<sup>2</sup>"/> | <input type="text" value="4 mm<sup>2</sup>"/> |
| Single Cable Length | <input type="text" value="10"/> m | <input type="text" value="10"/> m |

Picture 12, Total check

Click the checkbox of AC cable Specification (see Picture 12) to show the detail cable settings. Then set the Cable Material, Cable Cross-Section Area and Single Cable Length.



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AC cables Specification

Cable Material

Cable Cross-Section Area

Single Cable Length m

Picture 13, Total check

2.2.7 Additional and Report

At last, there are some additional (see Picture 14) settings. You can set some investment and profit setting.

Additional

Return On Investment

Currency

Total System Cost ¥ / W Details

Loan

| Loan Proportion | Loan Rates | Loan Years |
|------------------------|------------------------|---------------------------|
| <input type="text"/> % | <input type="text"/> % | <input type="text"/> Year |

Self-Used proportion %

Electricity Price ¥ / kWh

Electricity Subsidy ¥ / kWh

Picture 14, Additional

At the bottom, you can see 2 buttons (see Picture 15): Save Project, Get Report. Click “Save Project” and it will turn into “Please Enter Project Name” window (see Picture 16), where input the current project name and then click “Save” button to save. Click “Get Report” to save current project as PDF file.



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Picture 15, Save Project and Get Report

✕

Please Enter Project Name:

Close Save

Picture 16, Please Enter Project Name

2.3 Forget Password

In Solis Design (see Picture 2), you can see the link of “Forget Password?” in the lower part (see Picture 2). Click the link to get to Retrieve Password page (see Picture 17). Then input the Email and click “Submit” button then it will turn into the Forgotten password email page (see Picture 18), it displays that it has send the mail to your mailbox, in which you can click the link to get new password email page(see Picture 19). Then you can get the new password from your mailbox.



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Retrieve Password

Please Input Your Email

Email:

Submit

Picture 17, Retrieve Password

Retrieve Password

Forgotten password verification email has been sent, please check your mailbox.

Return

Picture 18, Send forgotten password email

Reset Password

New password email has been sent, please check your mailbox.

Return

Picture 19, Send new password email



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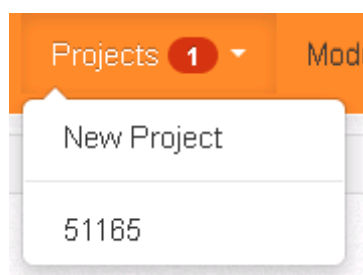
3 Top Bar

3.1 Projects

Click “Projects” (the number after “Projects” displays the old project of your account) in top bar (see Picture 20), you can see “New Project” (see Picture 21) and other projects which you did before. Click “New Project” to create new project. And you can click any one of old project to open it.



Picture 20, Top Bar



Picture 21, Projects

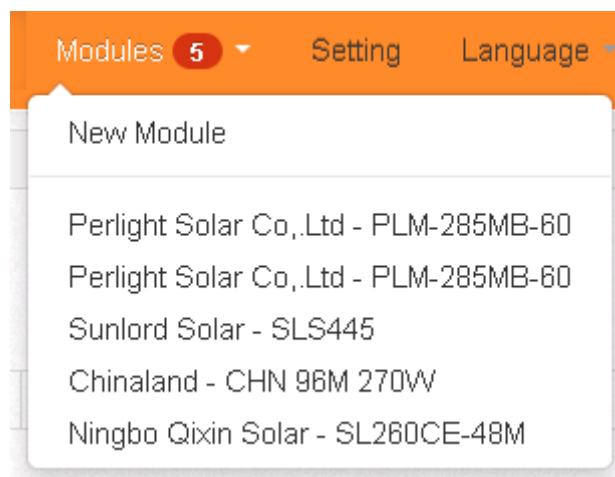
3.2 Modules

Click “Modules” (the number after “Modules” displays the old module which you made before) in top bar (see Picture 20), you can see “New Module” (see Picture 22) and other modules which you did before. Click “New Module” and it will turn into “Module Information” window (see Picture 23), where input all the information and click “Save” button to create new module. And you can click any one of old module to see the detail information (see Picture 24), where you modify it and click “Save” button to save changes, and you can delete the module here.



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Picture 22, Modules

Module Information x

| | | | |
|---------------|-------------------------------------|------------------------|---------------------------|
| Manufacturer: | <input type="text"/> | Allowed Voltage: | <input type="text"/> V |
| Module Type: | <input type="text"/> | Efficiency: | <input type="text"/> % |
| Material: | <input type="text" value="poly"/> | Open Circuit Voltage: | <input type="text"/> V |
| Module Area: | <input type="text"/> m ² | Short Circuit Current: | <input type="text"/> A |
| Peak Power: | <input type="text"/> W | Temp Coefficient | <input type="text"/> %/°C |
| MPP Voltage: | <input type="text"/> V | Uoc: | |
| MPP Current: | <input type="text"/> A | Temp Coefficient Isc: | <input type="text"/> %/°C |

Picture 23, New Module



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Module Information

| | | | |
|---------------|---|------------------------|--------------------------------------|
| Manufacturer: | <input type="text" value="Perlight Solar Co.,Ltd"/> | Allowed Voltage: | <input type="text" value="1000"/> V |
| Module Type: | <input type="text" value="PLM-285MB-60"/> | Efficiency: | <input type="text" value="17.52"/> % |
| Material: | <input type="text" value="mono"/> | Open Circuit Voltage: | <input type="text" value="39.35"/> V |
| Module Area: | <input type="text" value="1.63"/> m ² | Short Circuit Current: | <input type="text" value="9.41"/> A |
| Peak Power: | <input type="text" value="285"/> W | Temp Coefficient | <input type="text" value="-0.34"/> |
| MPP Voltage: | <input type="text" value="32.5"/> V | Uoc: | <input type="text" value="%/°C"/> |
| MPP Current: | <input type="text" value="8.77"/> A | Temp Coefficient Isc: | <input type="text" value="0.06"/> |
| | | | <input type="text" value="%/°C"/> |

Picture 24, Information of Module

3.3 Setting

Click “Setting” in top bar (see Picture 20), it will turn into the “Setting” window (see Picture 25). There are 3 items: Personal Information, Reset Password and Report Settings.

A. Personal Information.

Click “Personal Information” and it will show the detail information (see Picture 25), and then set the Email, First Name, Last Name, Company, Phone and TimeZone. Then click “Save” button.

B. Reset Password.

Click “Reset Password” and it will turn into the item (see Picture 26), then input New Password and Confirm Password. Then click “Save” button.

C. Report Settings.



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Click “Report Settings” and it will turn into the item (see Picture 27). Then import picture as the Company Logo, and input Contact and Company Information if you need. Then click “Save” button.

Setting ×

Personal InformationReset PasswordReport Settings

Email:

First Name:

Last Name:

Company:

Phone:

TimeZone:

Picture 25, Setting



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Setting



[Personal Information](#)

[Reset Password](#)

[Report Settings](#)

New Password:

Confirm Password:

Close

Save

Picture 26, Reset Password



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Setting



[Personal Information](#)

[Reset Password](#)

[Report Settings](#)

Company Logo: 未选择文件。

Contact:

Company Information:

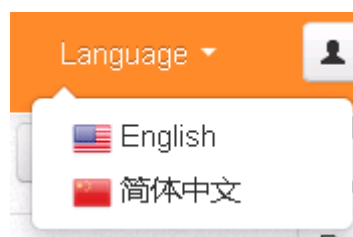
Close

Save

Picture 27, Report Setting

3.4 Language

Click “Language” in top bar (see Picture 20), you can see the 2 languages here (see Picture 28). The default language is English. There are just 2 languages now.



Picture 28, Language

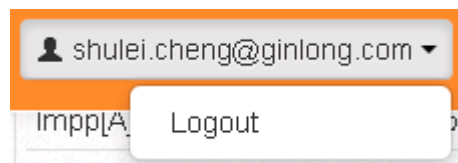
3.5 Exit



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On the right of top bar, you can see your account (see Picture 29). Click it and it will show “Logout”, click “Logout” to exit the login.



Picture 29, Logout