

KS Quote **User Manual**

Xiamen Kseng New Energy Tech. Co.,Ltd.

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1 Register and Start

1.1 Signing up for KS Quote

- Start your web browser and go to **kseng.solarapid.com**.
- In the Login window using the button [Sign up for free].
- Complete sign-up form.
- Click on **[Get started]**. You will receive a confirmation by e-mail.
- Open the e-mail and click on the activation link.

		cigi
<u> </u>		
7	- ·	
Create a	n account	
First Name	Last name	
please enter	please enter	
Company ①	Email	
please enter	please enter	
Password	Confirm Password	
Password please enter &	Confirm Password please enter	
Passward please enter 49	Confirm Password please enter	

1.2 Starting KS Quote

- Start your web browser and go to **kseng.solarapid.com**.
- In the Login window, sign in with your e-mail address and the password

KSENG		
	Log in to your accou	nt
	Welcome back! Please enter your de	ails.
	Email	
	please enter	
	Permanent	
	please enter	8
	For	t Password?
	Sinn in	
	sign in	
	No account? Sign up for free	

of your account.



2 Project List

KSENG		1			Project	List English ~	×
	Projects						
2	Q Search + Create						
3	Project	Status	Customer	Last Modified	Action		
	Geranlenweg 18B, 14772 Brandenburg an der Havel, Germany	• Design ~		2024-01-02 06:55:41	۵		
	My First Project	• Design ~	Jack Black	2024-01-02 06:55:10	2 🗉		
	Lexisstraße 3, 12435 Berlin, Germany	• Design ~		2023-12-28 19:42:29	2 0		
	Conradstraße 44, 07548 Gera, Germany	• Design 🗸 👻	Andraw	2023-12-28 19:07:13	۵ 🗉		
				Total 4	1 >		

The project list is displayed after you have logged in.

	Position	Explaination
1	Header	The following functions are available here:
		Back to Project List Page
		Language selection
		 Click the avatar, you can go to Console Page, or log out.
2	Operation	Search an existing project
		Create new project
3	Table	Click on [Edit] to open a project
		Click on [Delete] to delete a project
		 Click on status trigger to change the project status
		Status includes: Design, Complete, Realized



3 Project Design Pages

3.1 Create New Project

- Click on [Create] in the Project List Page.
- Create a new project step by step.

KSENG		Project List English	h • X •
	New Project		
	Project info		
	Location	L'industrites coust contraines to contraine automatic	
	4 Rue de la Promenade, 88400 Gérardmer, Fi	dimes exercised and the statistic statistic statistic statistics and statistics a	
	Coordinates format: latitude,longitude	La PriteSconie Centre communal	
	Project Type	Restaurantile Ristrovice la Barde	
	Boof 2 ³ / ₂ Ground Sround Solution Solution		
	Create		
		and the second sec	
		Redia Jon Month	

	Procedure	Description
1	Confirm Location	• Type in the project address and verify that the pin on the satellite view is on top of the correct building.
		• Or type in the latitude and longitude to ascertain the project location.
		• Make sure that the entire project site is visible in the frame.
2	Choose Project	Choose the project type.
	Туре	* Currently, the selection is limited to "Roof" only.
3	Create	Click on [Create].



Environment Layout Design Output English v X v KSENG Geranianweg 18B, 14772 Brandenburg an der Havel, Ge Wind Snow | Terrain | Topography | Consequence Classes Altitude 30.00 m Design Method DIN Wind Zone 🔵 Wind Speed ne 🕥 Sr Terrain Category Topography Windswept Snow Guard ③ Exceptional Snow Load @ No O Yes O No 🕓 Yes Consequence Class Design Working Life ③ 22.5 mb 25 mb 215 mb ~ **0** 25 O 50 CC1 Previous Next

3.2 Setting Environment Parameters

	Objection	Description
1	Altitude	The altitude data of the site is automatically obtained.
2	Design Method	Based on the project address, the design method is matched.
3	Wind Zone	Based on the illustration on the right, select the respective wind zone.
4	Wind Speed	Click the switch button to enable manual input for wind speed.
5	Snow Zone	Based on the illustration on the right, select the respective snow zone.
6	Snow Load	Click the switch button to enable manual input for snow load.
7	Terrian Category	Based on the illustration on the right, select the terrain category.
8	Topography	Based on the illustration on the right, select the topography.
9	Snow Gaurd	Select whether the roof has a snow guard or not.



		* Snow guards are devices used on rooftops to help snow and ice melt completely and drift off your metal roof in small amounts, rather than all at once.
10	Exceptional Snow Load	Choose whether the project considers the exceptional snow load or not. * Load of the snow layer on the ground resulting
		from a snow fall which has an exceptionally infrequent likelihood of occurring.
11	Consequence Class	For the purpose of reliability differentiation, consequences classes (CC) may be established by considering the consequences of failure or malfunction of the structure as given in Table B1.
12	Design Working Life	Assumed period for which a structure or part of it is to be used for its intended

After completing the form, proceed by clicking on the [Next].

3.3 Draw Roof Layout

On the Layout Page you can draw the design area and this is done for each

roof section individually.

Procedure:

- Click on [Roof] icon on the left and choose to draw a pitched roof or monopitched roof.
- 2. Start drawing the outline of your roof. The first line will be the eaves and drag your mouse to draw the roof shape.
- 3. Set the roof properties: set the building height, pitch angle, and



drainage direction of the roof. Drainage direction is the roof pitch direction.

- 4. Set the roof structure: Choose the appropriate roof covering material and configure the structural parameters of the roof, including Rafter Spacing, Batten Spacing, Distance to Left Verge, Distance to Right Verge (automatically calculate), Tile Height.
- 5. **Design the PV module arrays:** You can search the module in our database or define a module yourself.

After selecting the module, related layout parameters need to be set, including Module Orientation with options for Portrait or Landscape, Module Installation Type with Parallel or Elevated options, and entering the Min. Roof Edge Distance and Two Rows Gap.

In the advanced setting, you can customize thermal gap distribution when relevant. Enter the desired values in the fields **Column separation**, **Row separation** and **Frequency**. Frequency means how many modules per column or row should be arranged.

6. Click on [Auto Fill], the PV modules can be laid out on the roof.

Draw Obstructions:

If you need to add obstructions, click on the [**Obstacle**] icon and then you can draw a polygon-shaped obstacle.

If you prefer not to draw a perpendicular line, press the shift key on the keyboard when drawing.

Set the height and edge distance of obstacle on the right parameter panel.

Objective	Op	peration with the mouse
Changing the scaling	•	Use the mouse wheel to change the size of
of the display		the map.

Other operations:



	Or
•	You can change the size of the map using the buttons [+] and [-] at the upper right edge of the map
Show/Hide layers •	Click on [Layer] button at the upper right edge of the map. You have the option to enable or disable layers, including length and angle annotation, PV modules, shadows of obstacles.
Center map on • location	Click on [Aim] button at the upper right edge of the map.
Create new roof •	Click on [+] button at the right of the roof name.
Switch roof •	Click on the roof name to switch between existing roofs.
Configure obstacle • parameters	By clicking on obstacles on the map, the parameter panel will pop up on the right side, allowing you to modify the obstacle parameters.

After laying out the module arrays, proceed by clicking on the [Next].

3.4 Design the Mounting system

On the **Design Page** you can select the mounting system.

Procedure:

- 1. Click on the tab to switch and view the specific parameters of the rail and fastener.
- 2. Select a product set from the list.
- 3. Configure the relevant parameters for the layout of the rails and fasteners, including **Rail cut length**, **Rail Quantity**, **Rail span**.



- 4. Select the additional components.
- 5. Select the color of the mounting system.
- 6. Click [**Calculate**] button. For a while, the verification calculation result is shown on this page.

If there is a failed message, you can follow the prompts and proceed accordingly.

If any mounting system parameters are changed, please recalculate.

You can click on the roof name at the top of the page to switch between existing roofs.

Please ensure that all roofs have been calculated before proceeding to the next step.

3.5 Output

The output page displays the bill of materials for all roofs.

Please enter Please enter Report Report Report Report Report Report Report C Edit All Root1 Root2 -
Al Roof 1 Al Roof 2 C Lota Part Name Sale No Material Dimension Ony. (pc.) Spare Ony. Total Ony. Roll Field Roll Roll Roll AL6005-TIS L-s200 30 0 30 Roll Roll Roll Roll Roll Roll L-S002 L-s200 30 0 30 Roll Roll Roll Roll Roll Roll L-S002 L-s200 30 0 30 Mcd Clump CM-0142 AL6007-TIS 8US L=40 40 0 40
Pert Name Sale No Material Dimension Oxy (pec) Spans Gy, Total Oxy. Total Oxy. RoB1 Rail ROB1 Rail RALS00-75 L=200 30 0 30 Reg Rall Splice SR-8002 ALS000-75 & SLS. L=150 20 0 20 Mod Clamp CM-0142 ALS000-75 & SLS. L=40 40 0 40
R061 Rail R061 AL0005-T5 L=220 30 0 30 Rail Spice SR=8002 AL6005-T6 & SUS L=150 20 0 20 Mid Clamp CM-0142 AL6005-T6 & SUS L=40 40 0 40
Mail Pail Splice SR-a002 AL6005-T5 & SUS 304/316 L=150 20 0 20 Mid Clamp CM-0142 AL6005-T5 & SUS 304/316 L=40 40 0 40
Image: Mid Clemp CM-0142 AL6005-T5 & SUS L⇒40 40 0 40
0702#Hook: GG-0702-03 AL8005-175 & SU.5 L-120 0702#Hook: GG-0702-03 20-//216 WH-120 170 0 170 H=129
着 End Clamp CE-0153 AL6005-175 & SUS L=40 20 0 20 304/316

You can name your project and add additional information like the installation date and customer name.

Click on the roof tab to view the bill of materials of the roof. Click [Edit] button, then you can set the Spare Qty. for each device.

Finally, you can export your project as a PDF report and Excel file by clicking the [**Download**] button.



4 Console

4.1 PV Modules

You can browse all the information on PV modules in the database.

Creating a new PV module:

- 1. Click on [New Module].
- 2. In the dialog box [**New Module**], fill in the information about the PV module and click on [**Save**].

The state of your PV module is private. You can only edit or delete modules that are marked as "private" status.

4.2 Profile

You can change your name and email or update your photo in the profile page. You also can reset your password in this page.

4.3 User

* Note 1: Only company administrators can access this page.

* Note 2: The first registered user of the company will automatically become the company administrator.

KSENG	9	Project List English X
(Je)	1 Test company ∠	
Console	Team Members	3 + invite
User	2 First Name Q Last Name Q Email	Active 😚 Role 😚 Create Time
Subsidiary	Dancy Ko for graph profiles a	Company Admin 2023–12–04 13:34:23
PV Modules		Totel 1 < 1 >
Profile		



	Position	Explaination		
1	Company Name	• Click on the edit button next to the company name to modify the company name.		
2	Team members	The team members table displays all users in the company.		
		• Click on the [Active] toggle to disable/activate a user.		
		• Click on the [Edit] button allows you to modify the user's name.		
		 Click on the [Reset] button to change the user's password. 		
		 Click on the [Delete] button to remove the user from the company. 		
3	Invite	 Click on the [Invite] button to open the [Invite User] dialog box. 		
		• Fill in the fields and click on [Save].		
		The new user will receive an account activation email in their inbox. They can click on the email to activate their account.		
		Additionally, the company administrator can also activate the account from the user list.		

4.4 Subsidiary

* Note 1: Only company administrators can access this page.

* Note 2: The first registered user of the company will automatically become the company administrator.



KSENG								E Project List	English 🛩	x •
6	Subsidiary Company Your current discount is 0%.								2	+ Invite
Console	1 Company	Q Active 🖓	Discount(%)	First Name	Q	Last Name	Q Email			
User	sub		0	sub		test	123@test.com			2 🗉
Subsidiary	subtest		0	subtest		test	test@test.com			2 0
PV Modules										
Profile										

	Position	Explaination			
1	Subsidiary company	The subsidiary company table displays all the subsidiaries under the company.			
		• Click on the [Active] toggle to disable/activate a subsidiary company.			
		• Click on the [Edit] button allows you to modify the company name and the discounts.			
		 Click on the [Delete] button to remove the subsidiary company. 			
2	Invite	 Click on the [Invite] button to open the [Invite Company] dialog box. 			
		• Fill in the fields and click on [Save].			
		The specified subsidiary company administrator will receive an account activation email in their inbox. They can click on the email to activate their account.			
		Additionally, the parent company administrator can also activate the account from the user list.			