

# PV-ezQuote Quick Guide

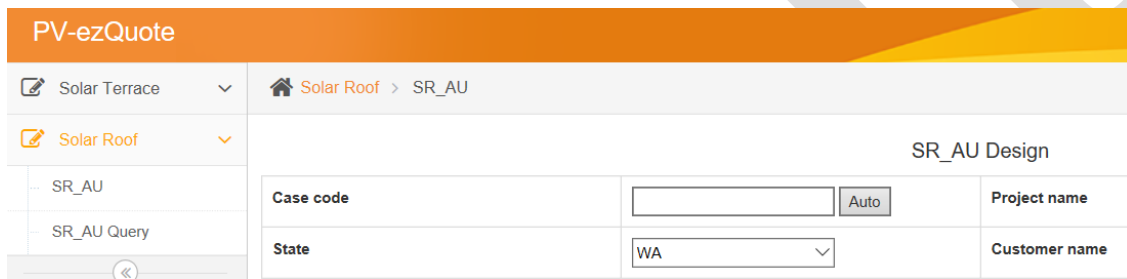
## 1. System selection. (Customer to choose)

### Roof Mount (Solar Roof)

Click **[SR\_AU]** at far left at top for commencing to use PV-ezQuote for [Solar Roof] series. **[SR\_AU]** means **Solar Roof** design of **Australia**. In **[SR\_AU Query]**, all saved projects can be seen.

### Ground Mount (Solar Terrace)

Click **[Ground Mounted]** at far left at top for commencing to use PV-ezQuote for [Solar Terrace] series. **[Ground Query]** all saved projects can be seen.



The screenshot shows the PV-ezQuote interface. At the top, there is a navigation bar with 'Solar Terrace' selected. Below it, a breadcrumb trail shows 'Solar Roof > SR\_AU'. A sidebar on the left contains 'Solar Roof' and a list of options including 'SR\_AU' and 'SR\_AU Query'. The main area is titled 'SR\_AU Design' and contains a form with the following fields:

Case code	<input type="text"/>	Auto	Project name
State	WA		Customer name

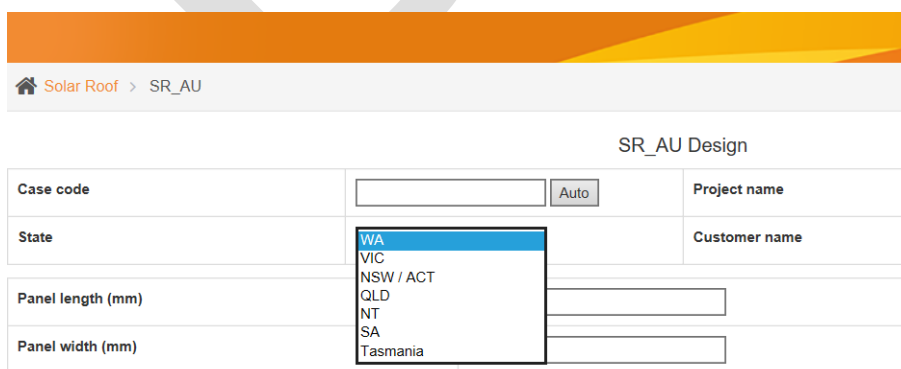
## 2. Case Code (Auto or Customer to enter)

The **[Case code]** is a unique identification for the design you will save. You can define it or the system automatically generates it by clicking the **[Auto]** button.

✘ **Blank is not allowed.**

## 3. State (Customer to choose)

Choose the **State** which the project is located in.



The screenshot shows the PV-ezQuote interface with the 'State' dropdown menu open. The breadcrumb trail is 'Solar Roof > SR\_AU'. The form fields are:

Case code	<input type="text"/>	Auto	Project name
State	WA		Customer name
Panel length (mm)			
Panel width (mm)			

The dropdown menu for 'State' is open, showing the following options: WA, VIC, NSW / ACT, QLD, NT, SA, Tasmania.

**4. Project name (Customer to enter)**

You may enter here the name identifying the project.

✘ **Blank is not allowed.**

**5. Customer name (Customer to enter)**

Enter your customer name.

✘ **Blank is not allowed.**

**6. Panel length (mm) (Customer to enter in millimeter)**

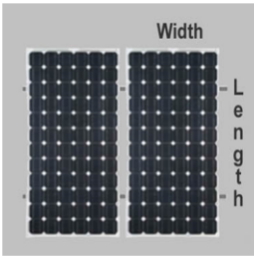
Enter the **[Panel length]** in millimeter as per the panels data sheet.

**7. Panel width (mm) (Customer to enter in millimeter)**

Enter the **[Panel width]** in millimeter as per the panels data sheet.

**8. Panel height (mm) (Customer to choose)**

Choose **[Framed]** or **[Frameless]** as per system design

Panel length (mm)	<input type="text" value="1650"/>	
Panel width (mm)	<input type="text" value="992"/>	
Panel height (mm)	<input type="text" value="Framed"/> <input type="text" value="Frameless"/> <input type="text" value="35"/>	
Panel power (Wp)	<input type="text" value="250"/>	
Total panel count	<input type="text"/>	

Under **[Framed]** category, choose panel height in millimeter (**28-57 mm**) as per the panels data sheet.

Panel length (mm)	<input type="text" value="1650"/>
Panel width (mm)	<input type="text" value="992"/>
Panel height (mm)	<input type="text" value="28"/> <input type="text" value="30"/> <input type="text" value="32"/> <input type="text" value="35"/> <input type="text" value="38"/> <input type="text" value="40"/> <input type="text" value="42"/> <input type="text" value="45"/> <input type="text" value="46"/> <input type="text" value="48"/> <input type="text" value="50"/> <input type="text" value="57"/>
Panel power (Wp)	
Total panel count	
Panel weight (kg)	

Under **[Frameless]** category, choose **[Trina Duomax panel (60cell)]** or **[Trina Duomax panel (72cell)]** as per system design, and choose panel height.

Panel height (mm)	<input type="text" value="Frameless"/> <ul style="list-style-type: none"> <li>Trina Duomax panel (60cell)</li> <li>Trina Duomax panel (72cell)</li> <li>80</li> </ul>
Panel power (Wp)	<input type="text" value="250"/>
Total panel count	<input type="text"/>
Panel weight (kg)	<input type="text" value="19"/>

**9. Panel power (Wp) (Customer to enter in Watts)**

Enter the [Panel output power] in watts as per the panels data sheet.

**10. Total panel count (Customer to enter)**

Enter the [Total panel count] as per system design

**11. Interface / roof type (Customer to choose)**

Choose the [product type] as per system design.

Interface/roof type	<ul style="list-style-type: none"> <li>Tile interface</li> <li>Tin</li> <li>Tilt Legs 10 - 15</li> <li>Tilt Legs 15 - 30</li> <li>Tilt Legs 30 - 60</li> <li>SolarTripod 30 Single</li> <li>SolarTripod 30 Double</li> <li>SolarTripod 15/30 Single</li> <li>Lysaght Klip Lok 700</li> <li>Lysaght Klip Lok 406</li> <li>Fileders King Klip</li> <li>Stamit Speed Deck Ultra</li> <li>Lysaght Longline</li> </ul>
Rail type	
Maximum spacing type	
Rails running	
Installation spacing (mm)	
Only use 4200mm rails	<input type="checkbox"/>

**12. Product code (Auto)**

When you choose the [product type], the [Product code] will be automatically defined.

Interface/roof type	<input type="text" value="Tile interface"/>	Product code	ER-I-01
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**13. Rail type (Customer to choose)**

[Rail type] is only applicable to certain [product type]. Choose the [Standard rail] or [ECO rail] as per system design.

Interface/roof type	<input type="text" value="Tile interface"/>	Product code	ER-I-01
Rail type	<ul style="list-style-type: none"> <li>Standard rail</li> <li>ECO rail</li> </ul>	Rails count per panel	<input type="text" value="2"/>

**14. Rails count per panel (Customer to choose)**

It is only applicable to **[ECO rail]**. Choose the **[2], [3] or [4] rails count per panel** as per system design. This can be used if using the standard two rail configuration does not allow you to reach the distance between purlins at your project location.

### 15. Setup (Customer to choose)

**[Setup]** is only applicable to certain **[product type]**. Choose the **[Setup]** (PV orientation) as per system design. For example, if you have selected to use Klip Lok clamps then this area is where you choose what type of interface is to be installed on top of those clamps.

Interface/roof type	Lysaght Klip Lok 700	Product code	ER-I-09
Setup	Direct Mounting	Product code	
Maximum spacing type	Tilt Legs 10 - 15 Tilt Legs 15 - 30 Tilt Legs 30 - 60	Maximum spacing (mm)	1200
Rails running	SolarTripod 30 Single SolarTripod 30 Double SolarTripod 15/30 Single	Ribs spacing (mm)	233
Installation spacing (mm)	1100	Installation remark	Install an interface/support every 5th rib

### 16. PV Layout (Customer to choose)

**[PV Layout]** is only applicable to certain **[product type]**. Choose the **[PV Layout]** (PV orientation) as per system design. Most products are designed for panels in portrait configuration.

Interface/roof type	Tilt Legs 10 - 15	Product code	ER-TL10/15
Rail type	ECO rail	PV Layout	Portrait Landscape
Maximum spacing type	Automatic	Maximum spacing (mm)	1340

### 17. Maximum spacing type (mm) (Customer to choose)

Choose **[Manual Enter]** or **[Automatic]**.

If you enter Manual, this means you will be determining the maximum spacing between the interfaces yourself. If you want the system to do this for you (based off of our structural accreditations) then please select automatic.

Maximum spacing type	Manual Enter Automatic	Maximum spacing (mm)	1467
Rails running	perpendicular to the rafters	Rafters spacing (mm)	1000
Installation spacing (mm)	1000	Installation remark	Install a leg/feet every rafter
Only use 4200mm rails	<input type="checkbox"/> Yes	Use micro inverters	<input type="checkbox"/> Yes

### 18. Maximum spacing (mm) (Customer to enter or Auto)

Choose **[Maximum spacing (mm)]** to enter as per system design, or Let the PV-ezQuote tool recommend it for you.

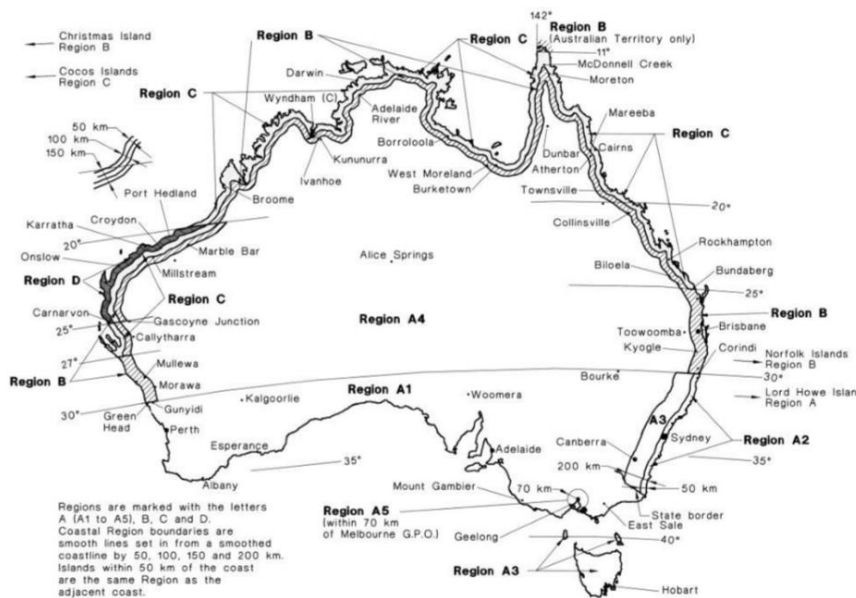
**19. Terrain category (Customer to choose)**

**[Terrain category]** is only applicable when to choose **[Automatic]** of **[Maximum spacing type]**. **[Terrain category]** defines the terrain pattern of the site the project is located. **[Terrain category 3]** defines terrain with numerous closely spaced obstructions (or buildings) having heights generally from 3m to 10m, e.g. suburban housing or light industrial estates. **[Terrain category 2]** defines terrain with sparsely spaced obstructions (or buildings) e.g. regional farming areas, or ocean front properties etc.

Maximum spacing type	Automatic	Maximum spacing (mm)	1467
Terrain category	2	Wind region	A
Roof angle (deg)	5° - 10°	Building height up to (m)	5

**20. Wind region (Customer to choose)**

**[Wind region]** is only applicable when you choose **[Automatic]** of **[Maximum spacing type]**. **[Wind region]** are pre-defined for all of Australia by the Australian Standard 1170.2. The Wind region is an independent factor of surrounding topography or buildings. Below is the Wind region map of Australia. Choose the **[Wind region]** as per system design.



**21. Roof angle (deg) (Customer to choose)**

**[Roof angle (deg)]** is only applicable when you choose **[Automatic]** of **[Maximum spacing type]**. Choose the **[Roof angle (deg)]** as per system design. Residential is generally between 20-30 degrees, commercial is generally <10 degrees.

Terrain category	2
Roof angle (deg)	<ul style="list-style-type: none"> <li>5° - 10°</li> <li>10° - 20°</li> <li>20° - 30°</li> <li>30° - 60°</li> </ul>
Rails running	

## 22. Building height up to (m) (Customer to choose)

**[Building height up to (m)]** is only applicable when you choose **[Automatic]** of **[Maximum spacing type]**. Choose the **[Building height up to (m)]** as per system design. Residential is generally 5m or less, commercial is generally 10m or less.

Wind region	A
Building height up to (m)	<ul style="list-style-type: none"> <li>5</li> <li>10</li> <li>15</li> <li>20</li> </ul>
Rafters spacing (mm)	

## 23. Is edge contained (Customer to choose)

Choose the **[Is edge contained]** as per system design. This means are the panels going to be installed likely within the edge zones of the roof structure.

Is edge contained	Yes	Fixing screws count	2
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## 24. Fixing screws count (Customer to choose)

Choose the **[Fixing screw count]** as per system design. This specifies how many fixing screws will be used for the interface selected. This will automatically select the standard configuration, as such you should not generally have to adjust it. Where you may need to adjust this, is if you are installing an adjustable tilt lg system and the rails are running perpendicular to the purlins, in that case you would only use a single screw to fix the tilt legs to the purlins.

## 25. Rails running (Customer to choose)

Choose the **[Rails running]** as **[perpendicular]** or **[parallel]** to the rafters or purlins depending on the roof type as per system design.

Rails running	<input type="text" value="perpendicular"/> to the purlins	Purlins spacing (mm)	<input type="text" value="1000"/>
Installation spacing (mm)	<input type="text" value="1000"/>	Installation remark	Install a leg/feet every purlin
Only use 4200mm rails	<input type="checkbox"/> Yes	Use micro inverters	<input type="checkbox"/> Yes

**26. Purlins spacing (mm) (Customer to enter)**

Enter the **[Purlins spacing (mm)]** in millimeter as per system design. It is based on the existing purlins of the roof you are installing on. If this is not known, it is generally 1300mm on tin roofs and 900mm for baton spacings on tile roofs.

**27. Installation spacing (mm) (Auto)**

Let the PV-ezQuote recommend this.

**28. Installation remark (Auto)**

The PV-ezQuote makes comments here where necessary. Please take note of the comments and relay information to the customer as necessary.

**29. Only use 4200mm rails (Customer to tick or not)**

Tick **[Yes]** to only use 4200 mm rails. Otherwise, the system will select from our range of different rail lengths to best match your panel layout.

**30. Use micro inverters (Customer to tick or not)**

Tick **[Yes]** if you are using micro inverters or optimisers. This will add an additional z-module with bolts and washers for every panel in order to help with installing the optimizers / micro inverters. If these items are preinstalled on the panels, you do not need to tick this box.

**31. Without spare or with spare (Customer to choose)**

Choose **[Without spare]** or **[with spare]** to define if the spare parts are needed.

**32. Arrangement (Customer to enter)**

Enter the **[No of Panels and Arrays]** as per system design.

Arrangement:				
No of Panels	No of Arrays	Span	Track combination	Add arrangement
<input type="text"/>	x <input type="text"/>	<input type="text"/>	<input type="text"/> x 2100 + <input type="text"/> x 3150 + <input type="text"/> x 4200	<input type="button" value="Add arrangement"/>
				<input type="button" value="Generate"/> <input type="button" value="Save"/>

<input type="button" value="SOW"/>	<input type="button" value="BOM"/>
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<input type="button" value="Export SOW"/>	<input type="button" value="Request Freight Quotation"/>
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### 33. Print out result

Click **[Generate]** button for generating **SOW (Scope of work)** and **BOM (Bill of materials)**.

### 34. Save the result

Click **[Save]** button for saving the data. You can check the saved data in **[SR\_AU Query]** later.

### 35. Export SOW

Click **[Export SOW]** for exporting the data to your PC in Excel format.

※ We Recommend to save the data onto the network for future reference or amendment.

### 36. Request Freight Quotation (Customer to enter and choose)

Enter **[Delivery address]**, choose **[Delivery type]** and enter **[your email]** for freight quotation request from Clenergy.

<input type="button" value="Export SOW"/>	<input type="button" value="Request Freight Quotation"/>
Delivery address	<input type="text"/>
Delivery type	Standard delivery <input type="button" value="v"/>
My email	<input type="text"/>
<input type="button" value="Send to Clenergy"/>	



## FAQ

### (1) Maximum spacing error

Maximum spacing should be larger than rafters spacing , if not please turn to engineer.

If you see this error, please finish entering your details and prepare a BOM. If this is still an issue you will be notified again. If this is the case, please contact Clenergy Engineering support on 03 9239 8088 (option 2) and we will assist.

### (2) Generate error

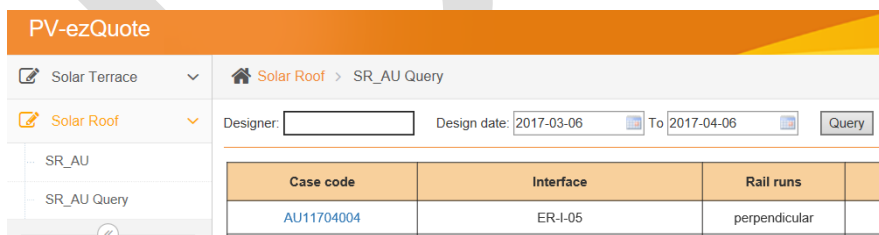
Total panel count are not the same as the count in arrangement!

→ Enter total panel count needs to be same as **[No of Panels] x [No of Arrays]**.

### (3) Saving error

Case code, project name and Customer name can not be empty!

→ The **[Case code]**, **[Project name]** and **[Customer name]** must be entered. You can see saved data in **[SR\_AU Query]**.

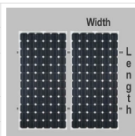


Case code	Interface	Rail runs
AU11704004	ER-I-05	perpendicular

<< Entry Screen >>

Solar Roof > SR\_AU
SR\_AU Design

Case code	<input type="text" value="Auto"/>	Project name	<input type="text"/>
State	<input type="text" value="WA"/>	Customer name	<input type="text"/>

Panel length (mm)	<input type="text" value="1820"/>	<div style="border: 1px solid #ccc; padding: 5px; font-size: 0.7em;"> <p>Width</p>  </div>
Panel width (mm)	<input type="text" value="992"/>	
Panel height (mm)	<input type="text" value="Framed"/>	
Panel power (Wp)	<input type="text" value="35"/>	
Total panel count	<input type="text" value="250"/>	
Panel weight (kg)	<input type="text" value="19"/>	

Interface/roof type	<input type="text" value="Tin"/>	Product code	<input type="text" value="ER-1-05"/>
Rail type	<input type="text" value="ECO rail"/>	Rails count per panel	<input type="text" value="2"/>
Maximum spacing type	<input type="text" value="Automatic"/>	Maximum spacing (mm)	<input type="text" value="1725"/>
Terrain category	<input type="text" value="2"/>	Wind region	<input type="text" value="A"/>
Roof angle (deg)	<input type="text" value="5° - 10°"/>	Building height up to (m)	<input type="text" value="5"/>
Rails running	<input type="text" value="perpendicular"/> to the purlins	Purlins spacing (mm)	<input type="text" value="800"/>
Installation spacing (mm)	<input type="text" value="1200"/>	Installation remark	<input type="text" value="Install a leg/feet every 2nd purlin"/>
Only use 4200mm rails	<input type="checkbox"/> Yes	Use micro inverters	<input type="checkbox"/> Yes

Without spare

Arrangement:

No of Panels	No of Arrays	Span	Track combination	
<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2100"/>	<input type="text" value="3150"/>	<input type="text" value="4200"/>

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