

Custom solar panels

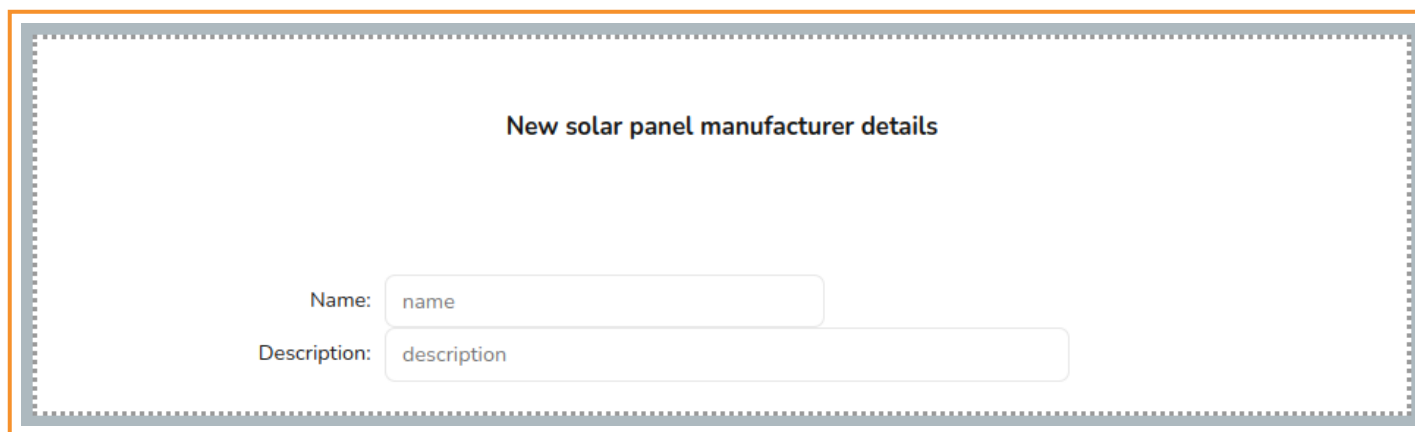
This guide applies to the easy-pv.co.uk and easy-pv.ie versions of Easy PV. The information provided here may not be accurate for easy-pv.com.

To add a custom panel in Easy PV navigate to **My Components > Solar Panels** on the left-side menu or **Components > Edit Solar Panels** from the top drop down menu.

You will need the **datasheet** from the manufacturer so Easy PV can appropriately perform calculations for inverter sizing and system output. Below you will find guidance on how the information in the datasheet corresponds to the values Easy PV asks for.


Creating manufacturer

When adding any custom panel in Easy PV you first need to add a custom manufacturer category which allows you to organise your custom components. The components added will be categorised by their manufacturer when it comes to select them in a project.



The screenshot shows a form titled "New solar panel manufacturer details". It contains two input fields: "Name:" with a placeholder "name" and "Description:" with a placeholder "description". The form is enclosed in a dashed border.

After inputting the name for the manufacturer, re-open your custom manufacturer and you will see the additional option to add a solar panel.



Custom manufacturer

Not used in any projects

Name: Custom manufacturer

Description: description

[+] Add solar panel

Inputting information from datasheet


You will then need to input the technical information found in the datasheet for the panel. If your data sheet has two sets of data you should use the values for **standard test conditions (STC)** not the values for Normal Module Operating Temperature (NMOT). This is a list of potential variations for each value required to add a custom panel:

Technical info	Variations
Power: power of the panel at STC in Watts	<ul style="list-style-type: none"> Peak Power Watts Maximum Power Pmax Power at MPP
I_{sc} : short circuit current of the panel at STC in A	<ul style="list-style-type: none"> Short Circuit Current Short Circuit Current Isc
I_{mpp} : maximum power point current of the panel at STC in A	<ul style="list-style-type: none"> Maximum Power Current Current at MPP
ΔI_{sc}/°C : the temperature coefficient of the panel short circuit current	<ul style="list-style-type: none"> Temperature Coefficient of I_{sc}
V_{oc} : open circuit voltage of the panel at STC	<ul style="list-style-type: none"> Open Circuit Voltage
V_{mpp} : maximum power point voltage of the panel at STC	<ul style="list-style-type: none"> Maximum Power Voltage Voltage at MPP

$\Delta V_{oc}/^{\circ}C$: temperature coefficient of the open circuit voltage of the panel	<ul style="list-style-type: none">• Temperature Coefficient of V_{oc}
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The panel will auto-save once all the required fields are completed. Once you have added a panel successfully, you'll be able to select it in the list of panels when creating a new project in the panels task, listed under your custom manufacturer name.

Additional details and rules

- The **photo** and **description** for the panels will show up on your final customer proposal, to edit the image of the c and upload from your files:  t image
- There is a set of rules which can be configured for the panels. The default

Rules:

☐ Requires birdblocker clips for square tube

☐ Selected inverter groups only

☐ Selected specific inverters only

☒ Compatible with renusol console

☐ Restrict mounting systems

☐ Disallow orientations

☒ Compatible with GSE

settings for new panels: