

Generation tariff

Your **Solo II PV** will start to show your energy generation as soon as it's installed. To get the most out of your display you'll need to enter your tariff.

About your generation tariff

Your utility will provide you with a generation tariff (also known as 'feed-in-tariff' or 'FIT') and also tell you whether you have any other payments as part of this tariff.

The **Solo II PV** shows a calculated approximation of earnings from your PV array based on the configured generation tariff.

Calculated earnings do not include any other payments made as part of your generation tariff.

⚠ *Do not use figures from your **Solo II PV** to submit readings to your utility - always take readings directly from the generation meter.*

Enter your generation tariff

Your generation tariff which will usually be shown as 'per kWh' and you don't need to enter any other payment details.

To configure your generation tariff:

- Press and hold  until **[BASIC]** shows;
- Repeatedly press  until you see **FIT** and a number flashing;
- Use  and  to change the tariff and press  to set;
- Repeatedly press  until you exit the settings screens.

Once your generation tariff has been entered, your **Solo II PV** will start to show you how much your PV array is earning.

Settings

For information on other settings for your **Solo II PV**, refer to the online user manual.

Safety notice

It is important to observe some simple safety precautions when using this product. Safe operation of your **Solo II PV** is impaired if used in a manner not specified by the manufacturer.

⚠ Keep the **Solo II PV** away from water and other liquids. Disconnect from the mains power supply before cleaning (with a soft, dry cloth only). Please contact your supplier if any components appear damaged or faulty.

🏠 Your **Solo II PV** is designed to be used in an indoor, domestic environment only.

♻ To protect the environment, this product and its batteries must be disposed of safely at the end of its life.

CE This product is CE approved.

♻ This product complies with RoHS regulations.

Troubleshooting

My display is not showing any information

This could be because your display is out of range and is not communicating with the transmitter / meter.

The signal strength to the transmitter is shown on the top left of the display. The more bars shown, the better the signal and performance of the display.

Try moving your display closer to the transmitter and meter. If problems persist, please refer to our website.

My display is blank or has switched itself off

The display backlight may have turned itself off if configured to do so. Press any button on the display to switch it back on.

The backlight can be set to switch off between certain hours of the day. To make a change to this setting, enter the **[ADVANCED]** settings and change **DISPLAY OFF** and **DISPLAY ON** to your requirements.

If the display remains off even after pressing a button, check the power supply connection and then refer to our website if the problem persists.

Further information

This guide is designed to introduce you to the **Solo II PV**. In it you'll find some basic information about the key features and functionality.

User manual

A full online user manual is available at <http://www.geotogether.com/solo2>

Technical specifications

Solo II PV display

This product is intended to be used indoors in a domestic environment. It is not suitable for outdoor use.

Display model	Solo II PV / PCK-S2-011
Supply voltage	240Vac, 50Hz
Operating voltage	5Vdc
Operating power	< 0.6W
Operating temperature	0 to 40°C
Operating humidity	0 to 85% non-condensing

Manufacturer

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Main Street,
Hardwick,
Cambridge
CB23 7QS, UK

The product CE Declaration of Conformance can be retrieved from: <https://www.geotogether.com/cedoc>



Solo II PV Quick Start Guide



Introduction

The **Solo II PV** shows real-time information about the electricity your solar PV array is generating. It uses a low power radio frequency to talk to the supplied transmitter connected to your generation meter.

Using the optional internet bridge you can use energynote® - geo's online service - to access real-time information from your PC, smartphone, tablet or other internet-enabled device.

Please read the important safety notice in this document before using your display.

What's in the box?

- Solo II PV energy display + removable stand
- Power supply
- Wireless transmitter + batteries
- LED sensor and Velcro® pad
- Quick Start Guide

If anything is missing, please contact your supplier. A more detailed user manual is available online - see the back of this guide for more details.

Setting up your display

Connecting the power supply

Connect the power supply to your **Solo II PV**. Your display will turn on automatically when you plug it into the mains.

Always disconnect the power supply before cleaning your display.

Only use the power supply supplied with your **Solo II PV**.

Wall mounting your display

Your **Solo II PV** can be either free standing or wall mounted.

To place on the wall, remove the stand from the back of the display by sliding it downwards then secure it to the wall with two flat-head screws.

Connecting the transmitter

 *Installing the transmitter is simple - but if at any point you are unsure about how to connect the transmitter safely, please speak to your PV installer or supplier.*

Connecting the transmitter

Locate the LED on the front of your generation meter. There may be more than one LED - the one needed will be marked with 'imp/kwh' adjacent to it. It will flash red periodically if your array is generating.

Take a note of the pulse rate for your meter. 1000 imp/kWh means 1,000 pulses per kWh generated.

Attach one part of the Velcro® pad to the meter, ensuring the LED is visible through the hole. Apply the other part to the supplied LED sensor.

Firmly press the LED sensor to the meter using the Velcro® and then connect the end of the sensor cable in to the base of the transmitter.

Powering up

Remove the battery cover by pressing the tab on the back and sliding the cover upwards. Pull out the battery tab and your transmitter will power on.

Configuring the Solo II PV

Your **Solo II PV** and transmitter need to be configured to work with your PV installation.

- Press and hold the middle  button;
- Press  until [ADVANCED] shows and press ;
- Repeatedly press  until PV ARRAY kW shows;
- Use  and  to enter the size of your PV array (in kW output) - you may need to check with your installer for the correct value;
- Press  to save and then again repeatedly until PULSE shows;
- Use  and  to change the pulse rate to the value you noted while installing the LED sensor;
- Press  to save and then press repeatedly to exit the advanced settings and start using the **Solo II PV**.

Your display will immediately start to show any generation from your PV array. If there is low light when you've installed it, you may need to check your display when the sun is shining.

Solo II PV overview

Signal strength

Indicates the quality of the signal between your **Solo II PV** and the transmitter. Five bars = maximum strength.

Speedometer

The large dial shows the current rate of energy generation from your PV array.

The more segments shown, the greater the amount of power being generated.

The dial is scaled to the size of your PV array. The light orange zone is more sensitive and shows finer detail - the darker orange and red zones show less detail and represent higher generated power.

As the generation from your PV array changes the speedometer will change accordingly.

When there is no generation, the dial won't light up.

The numbers show the current power generation in cost, energy (kW) and kg of CO₂. All are based on an hourly rate.

If you press the  button, you can switch between cost, kW and CO₂.

Temperature

Current indoor and outdoor temperature (if fitted).

Internet

With the optional internet bridge, the cloud icon indicates a working internet connection.

Battery

If the batteries need replacing in your transmitter, this icon will flash. Replace them as soon as possible.

Total

The middle section of the display shows how much you have generated over time.

If you press the  button, the **Solo II PV** will show the total for today, yesterday, day before yesterday, this week, last week, this month and last month.

Stopwatch

Your Solo II has a function to let you record generation over a specific time.

Press the  button to enter the stopwatch mode. Use the  button to start or stop the stopwatch. A long press of  will reset the stopwatch.

Press  to exit the stopwatch.

If the stopwatch is in RUN mode, a small clock icon will be shown.

"Switch on" icon

When your PV array is generating 750W or more, the "switch on" icon will be lit.

The icon indicates that it's a good time to switch on appliances within the home and make use of generated electricity - all to maximise savings from your PV array.



Buttons

 button changes the total period.

 switch between cost, kW and CO₂.

 enters the stopwatch mode.