



## Product information

### Product Size and weight

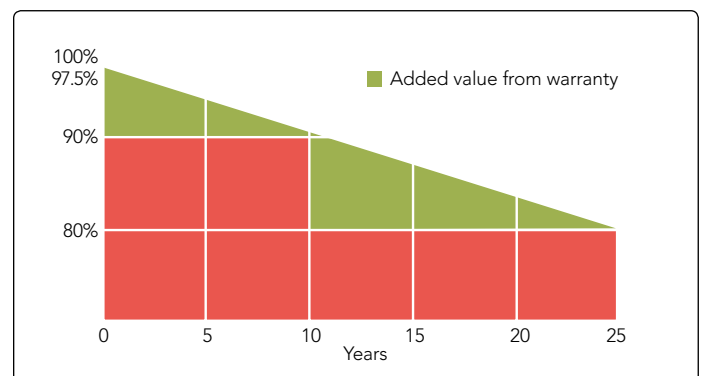
Gross Width	1115mm
Gross Length	1858mm
Gross Depth	34mm
Exposed Width	1033mm
Exposed Length	1761mm
Unit Weight	20.6kg

### What is Sunstation?

Sunstation is a full-size, all-black, building integrated PV module. 270Wp and 275Wp mono crystalline.

### Sunstation warranties

- 25 year linear power warranty
- 10 year product warranty



# Certifications

## IEC 61215 & IEC 61730

Standard IEC testing for PV modules, certificate issued by TUV SUD.

## MCS005, MCS012

Sunstation fully meets MCS and its testing exceeds its basic requirements.

## PASS'INNOVATION No. 2017-236

## PD/CEN TR 15601

This is the weather tightness test method used for standard roof tiles. MCS requires a PV system to be sprayed with water under calm conditions only. However we test Sunstation further and apply a wind speed of 13m/s along with water spray of 65mm/hr. Additionally we subject the underside to a gradually increasing negative pressure. This forces water through the system and shows if there are any leak paths. The volume of water is measured and compared to the test of standard roof tiles. The performance of the BIPV must be at least as good as the standard roof tiles.

Sunstation is compatible with all major roof tiles and slates and can be installed in a range of shapes to cope with roof variations without the need for additional under module waterproof membranes as required by some BIPV installations.

## External fire exposure test to BS 476-3, EN13501 and CEN/TS 1187

As Sunstation replaces the tiles on the roof it becomes the primary fire barrier and as a result must pass stringent fire testing. Sunstation is certified to meet several European and international standards and has achieved the highest ratings  $B_{\text{roof}}(t1)$ ,  $B_{\text{roof}}(t3)$  &  $B_{\text{roof}}(t4)$  in accordance with CEN/TS 1187 and EN13501 along with BS476-3, AA rating

## Wind uplift tested to EN14437 and EN 12179

EN 14437 is the wind uplift method used for standard roof tiles. EN 12179 is a wind test method commonly used for testing façades.

With both test methods the test specimen is subjected to uplift loads, and the maximum resistance is used to specify permissible wind load zones and installation conditions. Additionally EN 12179 also tests depression (snow) loading.

## Increased hail resistance

Sunstation has been tested to withstand the impact from a larger size of hail than the standard requirements. Instead of the standard 30mm diameter ball Sunstation is certified to resist up to 40mm for added piece of mind.

# Installing Sunstation

## What tile types is Sunstation compatible with?

Sunstation has been tested with, and is therefore compatible with, all major tiles and slate types.

## Can Sunstation be installed on a flat roof?

We try to cater for all roof types and continue to develop to meet a wider range of customers but flat roofs are technically quite different from pitched roofs so it will not be something Sunstation will be suitable for.

## Can Sunstation be installed on a north facing roof?

Technically yes but we advise against installing on north facing roofs as they do not receive as much sunlight and therefore would not generate as much energy.

## What is the smallest array you can install using Sunstation?

Sunstation can be installed as a single module if needs be.

## What shapes can Sunstation be installed in?

Sunstation can be installed, portrait /on bond only, in T and L shapes as well as traditionally square and rectangular arrays allowing the product to cope with real world demands.

## What is the min/max pitch I can install Sunstation on?

The minimum pitch that Sunstation can be installed on is 25 degrees, the maximum 60 degrees.

## Are there any wind zones that I should not install Sunstation in?

Sunstation has comprehensively been tested and is suitable for all wind zones. In areas subjected to high wind loads Sunstation may need to be installed onto 7 battens instead of the usual 5. Please contact Solarcentury for guidance on wind loads and how many battens are required to be fixed on to.

## Is Sunstation suitable for new build housing developments?

When you choose our award winning BIPV system, Sunstation, not only are you getting a 10 year product warranty and 25 year linear performance warranty, you are also getting a high quality system that is compliant with the NHBC technical standards, making Sunstation the perfect choice for your new build housing development.

## How is the product earthed?

If required, Sunstation can be earthed using the designated grounding holes with a standard earth cable. See the install guide for more details.

### How does the product cope with thermal expansion?

Unlike other systems Sunstation is installed onto battens which are not as rigid as conventional metal substructures. Additionally the product clips together and has a free edge, along with the built in module 'shunt' this allows you to open up the gap between each module. This allows the product to cope with thermal expansion easily

### As an installer, do I need to reinforce the roof?

Buildings with battens in poor condition or that are smaller than 25x50mm (25x38mm if using plain tile) will need additional battens. Areas exposed to high wind loads may require additional battens, depending on the wind load, See Sunstation datasheet for uplift resistance values or contact Solarcentury

\*Most properties built in the UK after 2004 will have 25x50mm battens.

### Will Sunstation work without battens on sarking?

Yes. Sunstation is also designed to work with Scottish sarking and can be installed directly into it with our Sarking screws.

### How does the perimeter work?

Hidden gutters manage the weather tightness of the interface between the product and standard roof tiles. These clip securely to the Sunstation modules.

### How does Sunstation cope with roof variations?

The modules and perimeter components have been designed to cope with "real-world variation" and allow the installer a degree of flexibility and adjustment on the roof. The module to module interface has an innovative "shunt" mechanism to allow lateral adjustment.

### Does it take longer to install than traditional systems?

No, the modules are installed very quickly. The system has been designed to minimise or eliminate marking-out and calculations. The right hand edge provides a starting-point for the install. The perimeter components click together. Overall Sunstation consists of just eight main components which make for a quicker, easier installation.

Check out our install animation:

<https://youtu.be/elWzmWemdbk>

### What support do you offer installers?

We're keen to help installers so we have created a number of resources to ensure our installers are fully equipped when installing Sunstation.

Our 3D animated video shows the installation process step-by-step. Watch it the night before an installation so that you have a clear picture of what you need before you start.

You can also download our free Sunstation app for iOS and Android mobile phones. It has all the information available in the installation guide, so you can refer to it whenever and where ever you like.

We also offer free design support and installer training.

### Who is installing Sunstation?

Our modules are popular in the new build, self build and retro fit markets.

Taylor Wimpey, Barratts and Stewart Milne are just three of a long list of housebuilder customers.

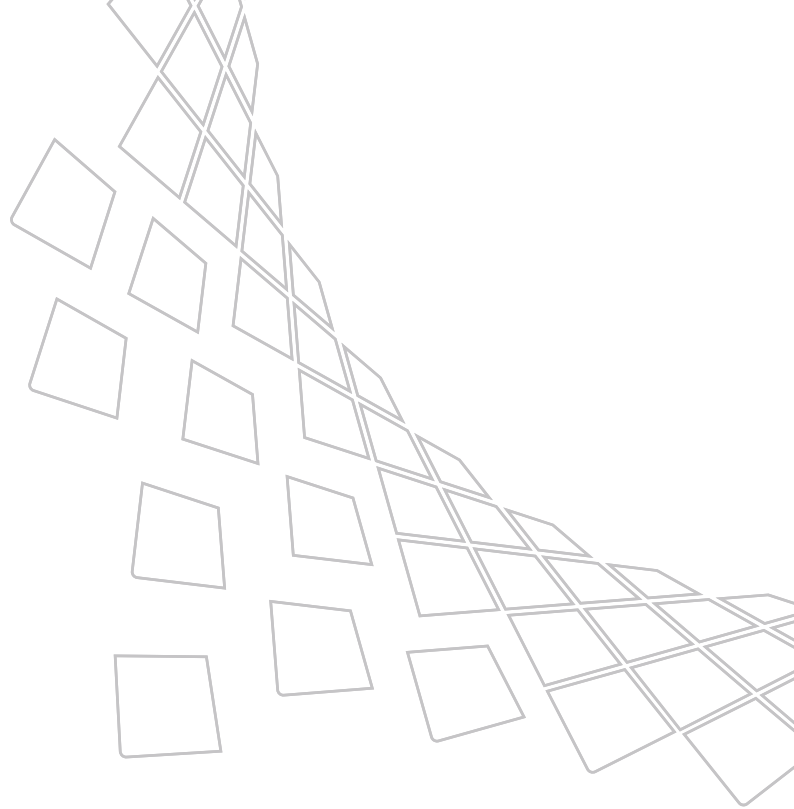
## Is training available?

Training is available throughout the year, please call +44 (0)20 7549 1000 for more information.

## Where is it made?

Sunstation is manufactured in Vietnam by tier 1 manufacturer JA Solar, who is among the top recommended brands in Europe and recently received the "Top Brand PV" seal of approval.





## Find out more



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+44 (0)20 7549 1000

### Solarcentury is in business for a purpose

To make a big difference in the fight against climate change through widespread adoption of solar power.

We are a big believer in helping solar change our world for the better, and we contribute 5% of our net profits every year to SolarAid, the charity we founded, who aim to eradicate kerosene lamps from Africa by 2020.



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