

# Datasheet



## Sunstation: Simple to specify. Simple to install.

### The Sunstation module

The Sunstation module has been engineered to provide a weather tight barrier. There's no need for any unwieldy or time-consuming sub-frame to be installed.

### The interlock design

The Sunstation modules lock together using our ingenious interlock design. The seamless joints between the modules means that not one thing stands proud. Only one side of the module is screwed to the battens, making the system super-fast to install.

And we've built in just a little 'shunt' in the interlock. This means you can still make fine adjustments to the angle of the module, to keep the array in line with the geometry of a real-life roof.

### The Sunstation perimeter

Around the Sunstation is a hidden gutter. This means far less of the perimeter is visible, which maintains the system's great looks.

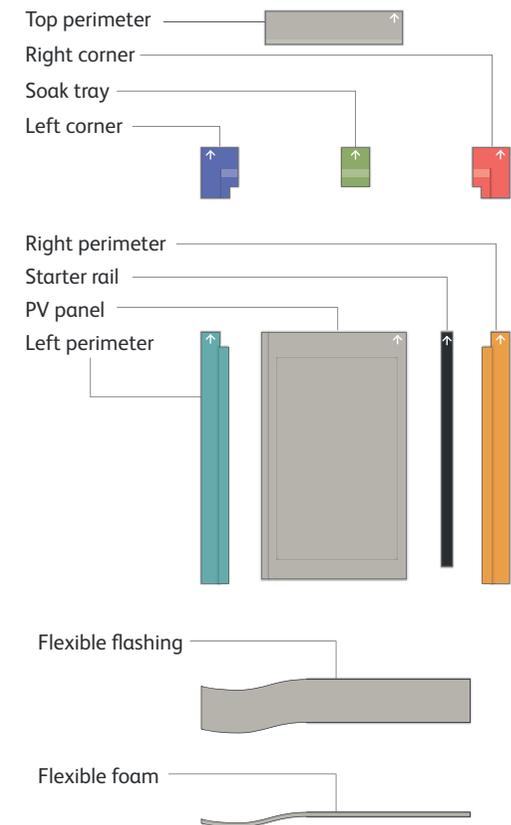
The sections of perimeter slide into position and stack inside each other (the way that glasses do). So you don't even have to measure to know when it's in the right place – and because the sections are nested in position, you need fewer fixings too.

### Quicker, easier, lower cost

With only seven components, Sunstation is an easy system that can be installed in a single day.



### Components



Module type: SUN M270 J22

Product code: 16997-01

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## Electrical specification

|  |  |
|--|--|
| Photovoltaic cell technology                         | Monocrystalline  |
| Cell dimensions (quantity) / diodes                  | 156 x 156 mm (60) / 3                                      |
| Peak power <sup>(1)(2)</sup>                         | 270 Wp - (0 Wp+5Wp)  |
| Laminate size (active area)                          | 1644 x 985 mm  |
| Module efficiency                                    | 16.5 %   |
| Maximum power voltage (Vmp) <sup>(2)</sup>           | 30.68 V  |
| Maximum power current (Imp) <sup>(2)</sup>           | 8.80 A   |
| Open circuit voltage (Voc) <sup>(2)</sup>            | 38.39 V  |
| Short circuit current (Isc) <sup>(2)</sup>           | 9.29 A   |
| Maximum system voltage (Vdc)                         | 1000 V DC  |
| Series fuse rating                                   | 15A  |
| NOCT   | 45 +/- 2 °C  |
| Temperature coefficient of the open-circuit voltage  | -0.330 % / °C  |
| Temperature coefficient of the short-circuit current | 0.059 % / °C   |
| Temperature coefficient of the power                 | -0.410 % / °C  |
| Connectors   | Multi contact MC4 IP65                                     |
| Cables   | Class II double insulated 4mm temperature rated -40° + 85° |

<sup>(1)</sup> Measured under Standard Test Conditions AM=1.5, E=1000W/m<sup>2</sup>, T= 25°C

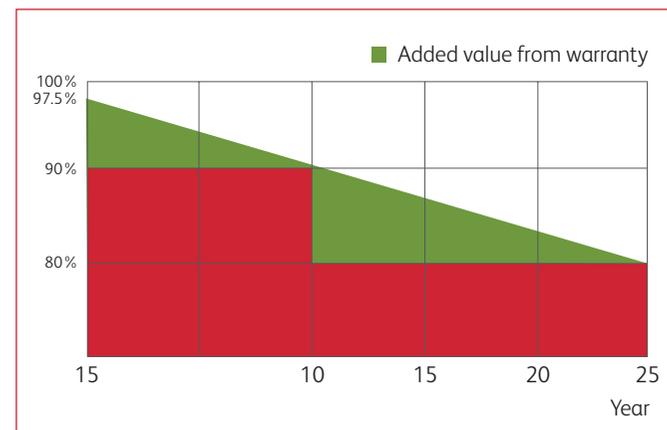
<sup>(2)</sup> Power selection: -0Wp +5Wp / Current, voltage and power tolerance: +/-3%

## Dimensions and compatibility

|                                 |  |
|---------------------------------|--|
| Gross width                     | 1115 mm  |
| Gross length                    | 1858 mm  |
| Profile depth                   | 34 mm  |
| Exposed width                   | 1033 mm  |
| Exposed length                  | 1761 mm  |
| Roof pitch (minimum)            | 25°  |
| Roof pitch (maximum)            | 60°  |
| Individual unit weight          | 20.6 kg  |
| Weight as laid at maximum gauge | 11.32 kg/m <sup>2</sup>  |
| Batten size (minimum)           | 50 x 25 mm   |
| Tile family compatibility       | Interlocking thick leading edge<br>Interlocking thin leading edge<br>Interlocking profiled tile<br>Interlocking plain tile<br>Interlocking pantile<br>Non-interlocking pantile<br>Natural and synthetic slate<br><br>For other tile types please contact Solarcentury. |

## Certifications and warranty

Product meets current UK building regulations  
Weather-tightness tested to PD/CEN TR 15601  
External fire exposure test to BS476-3:2004 AA rating  
Characteristic wind uplift: 3499.5Pa  
Design wind uplift resistance: 3181Pa.  
Partial factor: 1.1  
Characteristic wind uplift with added battens: 5864.1Pa  
Design wind uplift with added battens: 4072.3Pa.  
Partial factor: 1.44\*  
10 year product warranty  
25 year linear power warranty  
Positive power selection -0Wp +5Wp  
100% EL tested Fully MCS certified  
IEC 61215 / IEC 61730 certified  
SunStation® is protected in the EU by registered designs CRD002972679-0001 to 0008, along with design right in the UK.  
Patents are pending in multiple jurisdictions.  
\*Failure load not reached and worst case factor assumed



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