

# Datasheet

# 185W solar module

## Designed to deliver

**The Solarcentury solar module range combines attractive design and high efficiency. Manufactured to Solarcentury's exacting specifications, the modules are the latest addition to the portfolio from the UK's most experienced solar energy company.**

The Solarcentury module range utilises 72 highly efficient monocrystalline solar cells on an all-black backsheet, within an attractive and robust black anodised frame.

These fully certified modules are compatible with a wide range of mounting systems and are ideal for residential or commercial applications where power density and aesthetics are key considerations.

### High Efficiency:

Highly quality monocrystalline cells delivering a module efficiency of 14.7%

### Attractive Design:

All black module, with anodised frame complements the black monocrystalline cells with the black backing



## Quality you can trust:

- Designed and certified to support loads up to 5400 Pa, double the minimum IEC standard.
- Quality push click connectors for fast and reliable installations
- 5 year product guarantee
- 10 year performance guarantee for a power output of 90%
- 25 year performance guarantee for a power output of 80%

## Electrical Specification\*

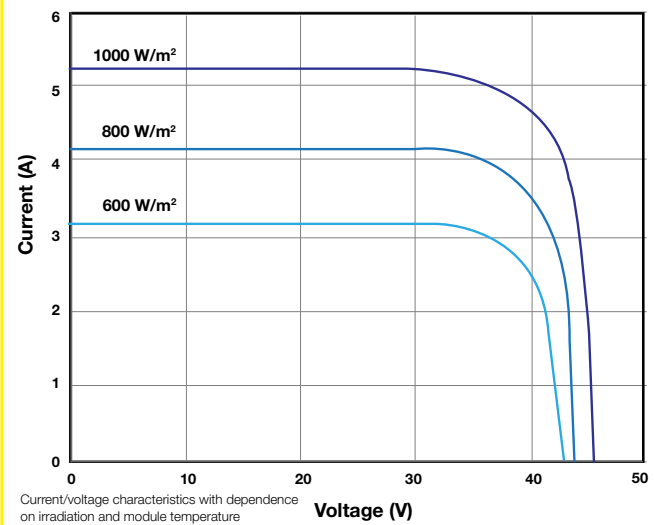
Photovoltaic cell technology	Monocrystalline
Number of cells	72
Cell Dimensions (mm)	125 x 125mm
Module efficiency	14.71%
Peak power <sup>(1)</sup> (Wp) (Pmax)	185Wp
Tolerance	5+/-%
Maximum power voltage* (Vmp)	36.80V
Maximum power current* (Imp)	5.03A
Open circuit voltage*(Voc)	44.4V
Short circuit current* (Isc)	5.69A
Maximum system voltage (Vdc)	1000V
NOCT	46.00°C +/- 2%
Temperature coefficient of the power	-0.46%/°C
Temperature coefficient of the open-circuit voltage (Voc)	-0.384%/°C
Temperature coefficient of the short-circuit current (Icc)	0.031%/°C

(1) Measured under Standard Test Conditions of 1000W/m<sup>2</sup> irradiance, AM 1.5 spectrum, 25°C cell temperature.

## Physical Specification

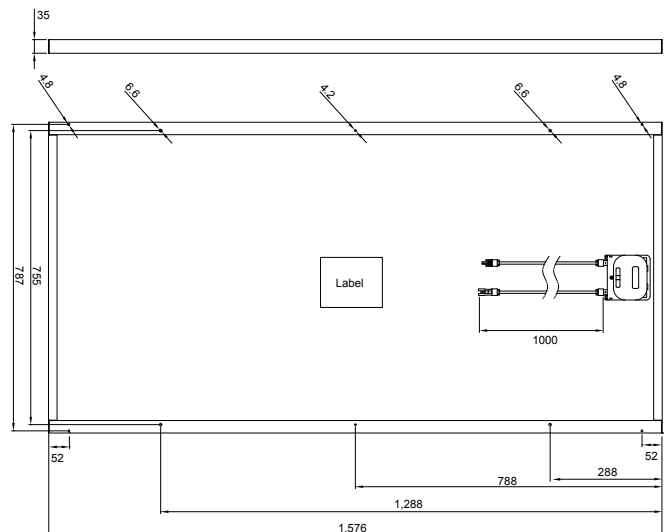
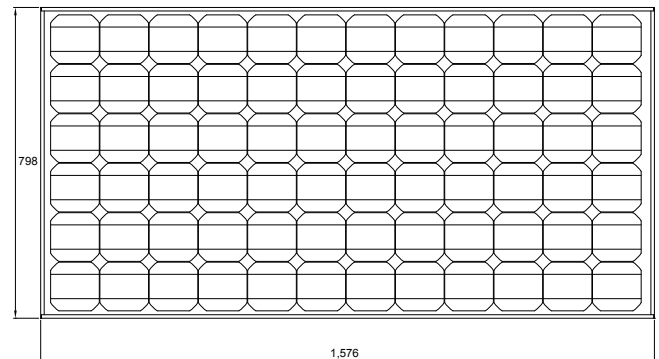
Gross Width	798mm
Gross Length	1576mm
Profile Depth	35mm
Unit weight	14.5kg
Junction Box: Tyco, IP-65	
Output cables: 1000mm length/MC4 (TUV)	
Frame: Black, anodized aluminium, double wall	

## IV Curve Parameters



## Tested Operating Conditions

Temperature	-40C to +85C
Maximum load (e.g. wind/snow)	5400Pa.
Impact resistance	Hail: 25mm, velocity: 23 m/s



## Warranty

Power output guaranteed for 25 years from date of commissioning (80% performance)

5 year product warranty.

## Certifications

IEC 61215  
Safety tested: IEC 61730  
Class C Fire rating  
Manufactured under ISO 9001

