

# Product Specifications

## 188 Watt Monocrystalline Photovoltaic Module

### Features

#### ■ Design

- Aesthetically elegant module incorporates stylish black slimline framing
- Outstanding durability - designed to withstand Australia's extreme weather conditions
- Minimal maintenance required

#### ■ Performance

- High-power module (188W) with 14.24% module conversion efficiency
- Photovoltaic module with bypass diode minimises the power drop caused by shade

#### ■ Guarantee

- 25 year Solar panel performance warranty
- 10 year mounting frame warranty
- 5 year inverter warranty

#### ■ Accreditation

- Certifications: IEC 61215 and IEC 61730
- SHARP modules are manufactured in ISO 9001 certified factories in Japan



Solar  
Inverter



# Which System is right for you ...

Deciding on the right system for your home will depend on a number of factors including:

- Your current and future energy usage
- Orientation and elevation of your roof
- Shading from trees and neighbouring properties
- Your location within Australia

Your Bradford Solar Energy specialist will guide you through the decision making process; they'll even help you assess the financial and environmental benefits to ensure the right solar solution is developed for your home and family's lifestyle.

System size	1504w	2256w	3008w	4512w
Number of modules	8	12	16	24
Area required	10.6 m2	15.8 m2	21.1 m2	31.7 m2
^Average energy contribution	29 - 40%	44 - 59%	58 - 79%	88 - 119%
*Average daily output range	5.3 - 7.1 kWh	7.9 - 10.7 kWh	10.5 - 14.2 kWh	15.7 - 21.4 kWh

^Average energy contribution is calculated on a typical Australian household that consumes around 18 kilowatt hours (kWh) per day. Solar panels produce more energy in summer than they do in winter.  
\*Average daily output range was calculated using RET Screen International software for Bradford Solar Energy Systems. 'Average daily output range' and 'Average energy contribution' will vary by state.



For more information on Bradford Solar Energy Systems  
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# SOLAR ENERGY

Power your home with clean energy from the sun





# Make a difference ... Invest in a renewable, energy efficient future with Bradford Solar Energy

Australia’s natural abundance of sunlight means that solar power makes great sense. By installing a Bradford Solar Energy system on your home, you’ll make considerable savings on your power bills and help to increase the resale value of your new home. You’ll also lessen your carbon footprint by reducing green house gas emissions.

### Be solar smart

- Reduce your electricity bills
- Protect yourself from rising energy costs
- Increase the resale value of your home
- Reduce your family’s carbon footprint and contribute to Australia’s renewable energy target (RET)

### So why choose Bradford Solar Energy to install your PV solar panel system?

Bradford has a long and proud history in Australia of producing energy saving building products. For decades, Bradford has been working with architects, designers, commercial and residential builders to develop energy efficient solutions that reduce our reliance on fossil fuels, whilst improving the environment we live and work in on a daily basis.

Bradford Solar Energy combines its industry knowledge and expertise with its solar technology partners to offer a complete and comprehensive solar energy solution.

### Our Guarantee

- All systems come with product performance and installation warranties for peace of mind
- Fit & forget - Bradford Solar Energy systems require little to no maintenance
- Optimum performance is achieved by using the most efficient monocrystalline technology
- Bradford Solar Energy systems are approved and accredited by the Clean Energy Council of Australia
- Solar panels are manufactured in Japan by Sharp Industries - an international leader in Solar PV for over 50 years
- Installers are fully qualified and accredited
- Security and assurance is guaranteed by dealing with one of Australia’s leading and most trusted building products companies – CSR

BE SURE WITH



## Reduce your carbon footprint and save!

Encouraging the use of renewable energy is an important step forward for all Australians. So to make it easier and more affordable, both State and Federal Governments have programs in place to help you reduce the initial cost of your system, and provide you with the opportunity to earn money for the energy your system produces. Government incentives are available in several forms and differ according to the state and region you live in.

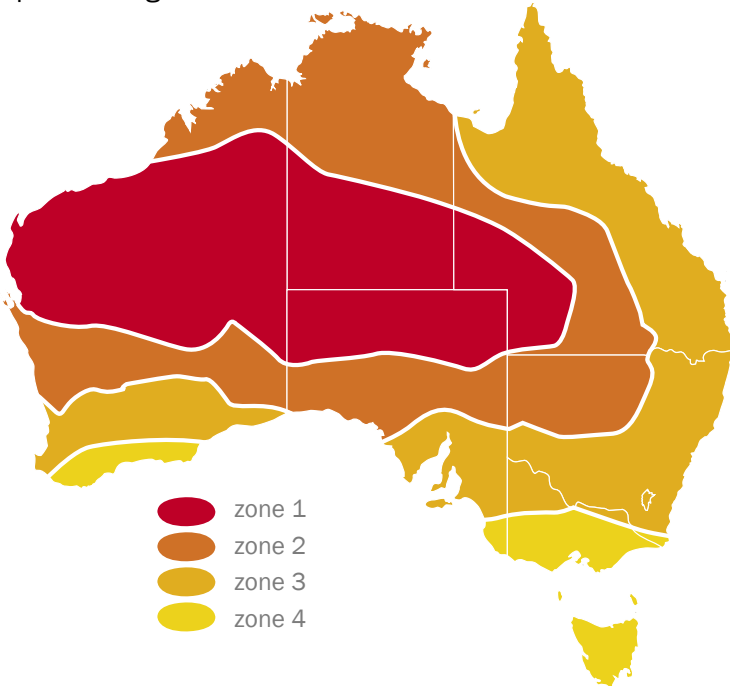
### Small-scale Technology Certificates (STCs)

#### What are they?

Small-scale Technology Certificates are an electronic form of currency created by the Renewable Energy (Electricity) Act 2000 (also known as the RET scheme). One STC is equivalent to one megawatt hour of electricity generated by your solar PV power system. STC’s are a tradable commodity (like shares), and when you install a Bradford Solar Energy system, the value of your STC’s are used to significantly reduce the overall cost of your system’s installation.

#### How are PV STCs calculated?

The number of STCs allocated to you will depend on the size of your system and the zone you live in. Australia is divided up into various zones based on how much renewable energy can be generated by a solar panel in a given area.



### What is the Solar Credit Scheme?

Solar Credits are an additional incentive offered by the federal government, and are calculated by multiplying the number of STCs generated by your PV solar system with a predetermined multiplier. These extra credits apply to the first 1.5kW of your system’s capacity. If your system is larger than 1.5kW, you will receive Solar Credits plus an additional STC for every one megawatt hour of electricity able to be generated by your solar PV system.

### Feed-in tariffs

Feed-in tariffs are essentially payments to you for electricity generated by your solar PV system. Each state has a different way of rewarding you for the energy you produce.

#### What is a Gross Feed-in tariff?

A gross feed-in tariff means you get paid for every unit of electricity generated by your solar panels, regardless of whether it goes into the grid or is used by your household.

#### What is a Net Feed-in tariff?

This is a premium paid for any solar energy that goes back into the grid from your house. So if you have surplus energy generated by your solar panels, you will be paid for it and if you use all of the energy you generate it will be offset against your normal electricity bill.

Additional information regarding state and federal government incentives, feed-in tariffs, the Solar Credit scheme and STC’s can be found by visiting the Clean Energy Council website: [www.cleanenergycouncil.org.au](http://www.cleanenergycouncil.org.au)

### STC Zone Map

eg: The same sized system installed in Melbourne or Hobart (Zone 4) receives fewer STCs than those installed in Sydney (Zone3) or Darwin (Zone 2) because Melbourne and Hobart have less sunshine so less solar energy is produced

### How is solar energy created?

Solar photovoltaic (PV) panels that are installed on your roof harness the sun’s light energy to generate clean, green electricity, with no emissions whatsoever. This light energy is converted directly into DC electricity and takes place within the cells of the solar panel. DC electricity is then converted by an inverter to regular household electricity which powers your lights and appliances. Any surplus power generated by your solar panels is exported to the grid; conversely, when your electricity demand exceeds your solar generation, the grid will provide any additional power required by the household.



1. Renewable clean energy from the sun
2. Bradford Solar Panels collect the energy from the sun and convert it to DC electricity
3. Inverter converts DC current to regular household electricity
4. Regular household electricity is sent to the meter box and is available to run appliances
5. Any surplus power generated by your Bradford Solar Energy system is sent to the grid
6. The grid supplements any shortfall of power