



Grid Connect Solar Energizer

Everything you need to
plug into the sun.

The Solar Energizer is an all-in-one solar electricity kit, designed and pre-engineered for homes and small commercial buildings, which are connected to the electricity grid. The systems are modular, flexible, easy to install and include everything needed to silently convert sunlight into clean, green electricity for use in your home or business. Solar Energizer kits are designed to comply with all relevant Australian standards and come in three sizes, so it is easy to find a solar electricity system to suit your lifestyle.

How it works

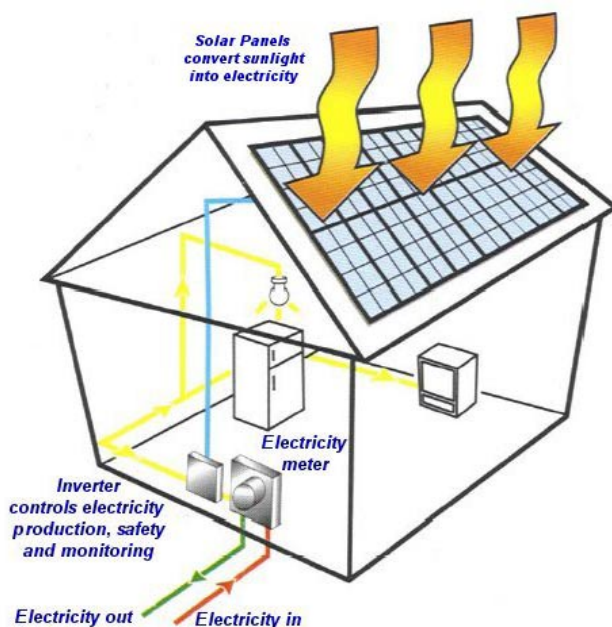
A Solar Energizer systems allow residents to plug into the sun and convert sunlight into standard household electricity. Our systems utilise the latest high efficiency solar panel technologies to collect the sunlight and specialised electronic devices to convert and control the flow of electricity.

When your Solar Energizer generates more power than your household uses, any excess electricity flows into the grid effectively spinning your electric meter backwards and building a credit against your bill.

How it benefits you

Environmental benefits

Solar electricity is the clean, silent energy alternative, helping the environment by preventing greenhouse gases from entering the atmosphere. Installing a Solar Energizer system is also a perfect way to meet rising building energy efficiency standards.



Financial benefits

A solar electricity system is a sound financial investment which can significantly reduce electricity bills while also protecting against inevitable electricity price increases by providing a fixed generation cost. Installing a Solar Energizer system will add value to your home or business and is a very attractive asset for prospective buyers.

Support for the future

The BP Solar modules used in the Solar Energizer kits are designed to withstand the harshest of weather conditions, including hail, and have an expected working life of over 40 years! You can also rest easy in the knowledge that the solar modules in your Solar Energizer system are backed by a 25-year performance guarantee and are made in Australia.

BP Solar has a proud 25-year history of manufacturing and supplying solar systems in Australia. We can give you the peace of mind you need when investing in solar.



Grid Connect Solar Energizer

All-in-one grid connect solutions to suit your home.

A flexible design

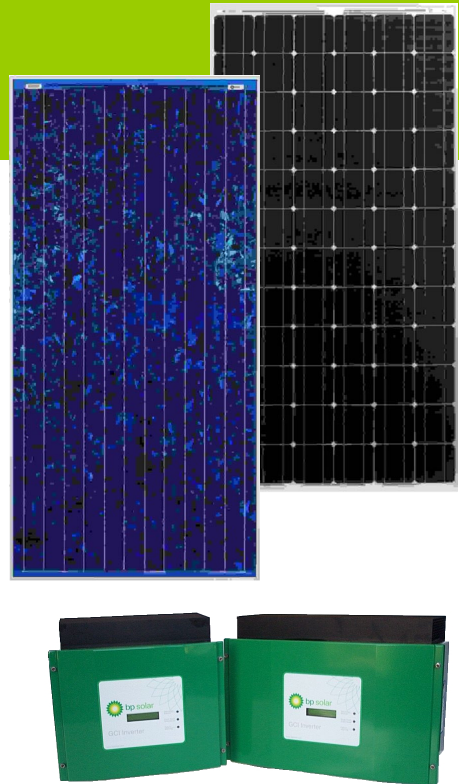
The Solar Energizer has been designed to suit a wide variety of needs and situations. It is available in three nominal sizes of 500W, 1000W and 1500W and is expandable as your demand and budget grows.

The innovative mounting system allows the system to be fitted to corrugated metal or tile roofs and to a variety of roof shapes, quickly and simply. The Solar Energizer even comes in a choice of two module colours.

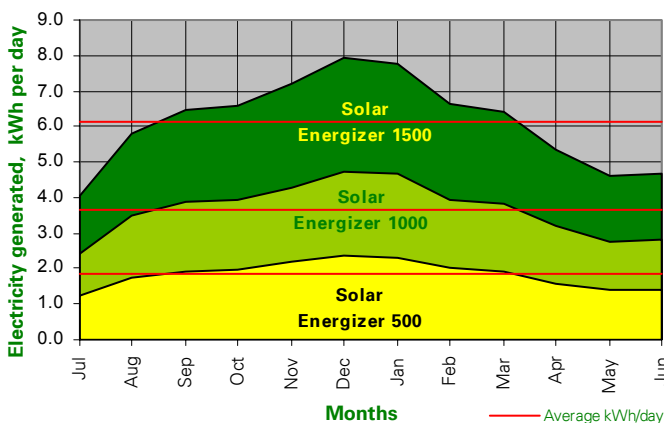
Everything you need

The Solar Energizer kit includes the following:

- Choice of two types of Australian made solar panels providing aesthetic options.
- Complete accessory kit, saving you time and money and ensuring safety and code compliance, including warning labels, DC isolators and quick connect plugs and sockets.
- Option of three nominal power sizes to match your electricity demand and budget.
- High quality, certified aluminium mounting structure, which is fast and easy to install to corrugated metal or tile roofs. Optional cyclone rated fixings kits are also available.
- Efficient and fully approved grid connect inverter with LCD screen to view system data and operational performance.
- Detailed manuals including an easy to read owners manual and a technical manual for installers.



Estimated Daily Energy Production
(Sydney Australia)**



(*) A typical energy efficient home is defined as consuming 7.5kWh per day, using 5 star appliances and having a 4-5 star energy efficiency rating.

(**) Calculations based on meteorological data from Sydney Australia at a typical roof angle of 27 degrees, facing due North under average annual solar conditions. Electrical generation is based on the Solar Energizer 500 (510Wp), 1000 (1020Wp) and the 1500 (1700Wp) systems.

How much electricity will I generate?

Typically, a Solar Energizer will generate sufficient electricity to power (*):

Solar Energizer 500

- Lights and small appliances in a small 1 - 2 bedroom home OR
- Up to 30% of your electricity bill in a typical energy efficient home in summer months.

Solar Energizer 1000

- Lights and medium sized appliances in a 2 -3 bedroom home OR
- Up to 60% of your electricity bill in a typical energy efficient home in summer months.

Solar Energizer 1500

- Lights and medium sized appliances in a 3 - 4 bedroom home OR
- Up to 100% of your electricity bill in a typical energy efficient home in summer months.

The peak generation of power is on a clear day when the sun is perpendicular to the solar array. Clouds, seasonal changes in the angle of the sun, array soiling, roof orientation, and any incidental shading may impact on the performance.

The graph opposite can be used as a guide to typical power generation by the various kits at different times of the year. It allows you to match a system to your electricity bill. For a more detailed prediction, please contact your BP Solar representative.



Grid Connect Solar Energizer

Mechanical and electrical characteristics

Solar Energizer 500

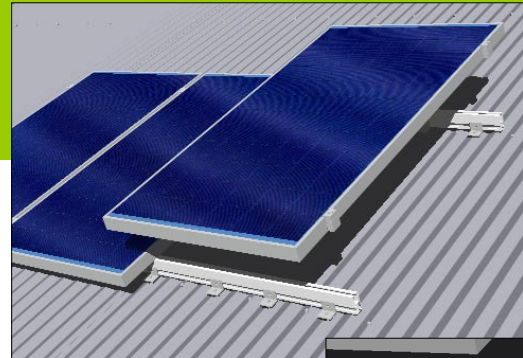
Nominal solar power output ⁽¹⁾	450W	510W
Solar module type	BP3150S	BP4170S
Quantity of solar modules	3	
Quantity of rail kits ⁽²⁾	1x 3 module	
Approx. total solar module area	3.93m ²	
Approx. weight on roof	75kg	

Solar Energizer 1000

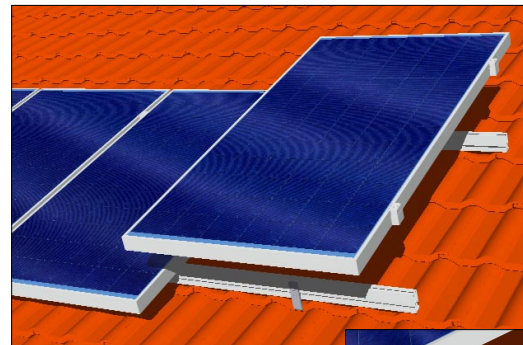
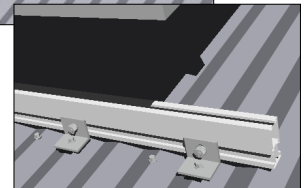
Nominal solar power output ⁽¹⁾	900W	1020W
Solar module type	BP3150	BP4170
Quantity of solar modules	6	
Quantity of rail kits ⁽²⁾	2x 3 module	
Approx. total solar module area	7.86m ²	
Approx. weight on roof	150kg	

Solar Energizer 1500

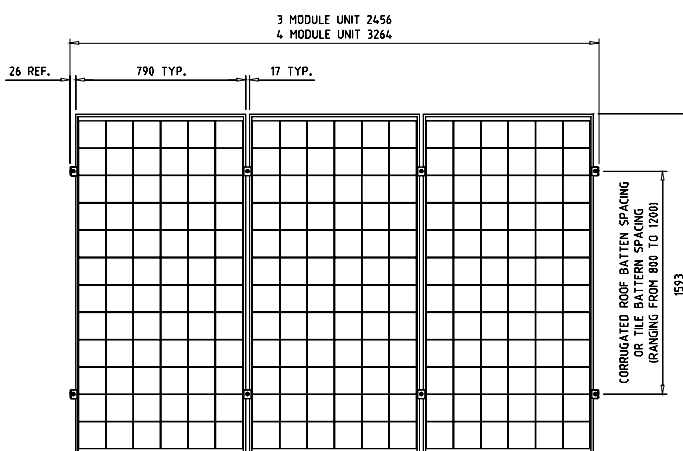
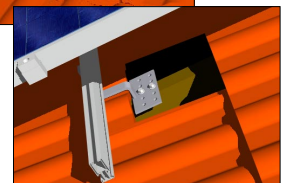
Nominal solar power output ⁽¹⁾	1500W	1700W
Solar module type	BP3150	BP4170
Quantity of solar modules	10	
Quantity of rail kits ⁽²⁾	2x 3 and 1x 4 module	
Approx. total solar module area	13.08m ²	
Approx. weight on roof	247kg	



Corrugated metal roof mounting system



Tile roof mounting system



The solar panels attach to mounting rail kits in groups of three or four panels.
Note: all dimensions are in mm.

Other

Inverter output voltage (nominal)	240V AC, 50Hz
Operating temperature	-25 to 70°C
Minimum distance to any roof edge	900mm
Mounting angle design range	
corrugated metal	10 to 45°
tile	22.5 to 45°
Maximum wind speed regions ⁽³⁾	
corrugated metal	Region C (cyclonic) Terrain Category 2 ⁽⁴⁾
tile	Region B (intermediate) Terrain Category 2
Solar module warranty	25 years (see warranty sheet for terms and conditions)
Inverter warranty	2 years (see warranty in inverter manual for terms and conditions)

1. Nominal solar power output is specified as the total nominal DC solar panel output, under standard test conditions, in accordance with IEC61215 (Illumination of 1kW/m², AM density 1.5 & Cell Temperature of 25°C). Calculation does not include compensation for mounting angle, orientation, dirt buildup, electrical losses or temperature, which may affect total output.
2. The kit is available to suit either tile or corrugated metal roof mounting.
3. Regions based on AS1170. Conditions apply in relation to the effects of terrain categories and topographic multipliers. These can effect suitability for fixing with in the various regions. Each site must be assessed prior to any installation to confirm suitability.
4. Additional brackets are required for mounting to corrugated metal roofs in Region C (Cyclonic) Terrain Category.
5. Options: 2 Year System Warranty, see installer for information.



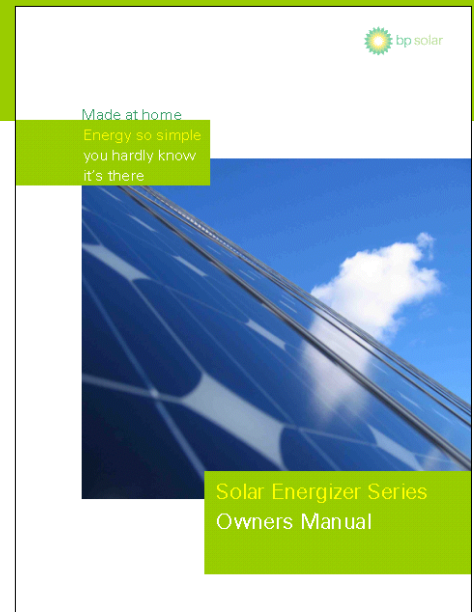
Grid Connect Solar Energizer

Decrease your electricity bills and increase your energy independence whilst adding to the value of your home or business.

Sales and Service network

Via our extensive Distributor and Sales and Service network that spans Australia, we can supply you with individual products or complete, professionally designed solar electric systems.

With up to 25 years warranty on our solar modules, we can give you the peace of mind to invest in solar systems today.



Energy so simple
you hardly know
it's there



"BP Solar has the best solar systems in the business. They are easy to install and meet all the relevant building and electrical codes. Combined with the best solar panels and electronics around, we can install a typical BP Solar system in around ½ a day"

Graeme McMullan,
System Installer,
Sydney, Australia

"Although I've done a few grid connects before, this is the first time I've used the kit and I must admit I was very impressed. You've done a great job, everything went together perfectly and you seem to have thought of everything in the kit"

David Skelton, System Installer,
Coffs Harbour, Australia

Disclaimer: BP Solar has a policy of continuing product improvement and enhancement. BP Solar therefore reserves the right to change these specifications at any time and without notice and should not be used as the definitive source of information for the final system design.

Additional warranty and technical information may be found on our website or obtained from your local BP Solar representative or by calling 1800 802 762 in Australia.