



Grid connect kit

# 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 buildings which are connected to the electricity grid. The systems are modular, flexible, easy to install and include everything you need to silently convert sunlight into clean, green electricity. Solar Energizer kits are designed to comply with all relevant Australian standards and come in a range of system sizes, so it is easy to find a solar electricity system to suit your needs.



### How it works

A BP Solar Energizer allows you to plug into the sun and convert sunlight into standard AC electricity. Our systems utilise the latest high efficiency solar module technologies to collect the sunlight and specialised electronic devices to convert and control the flow of electricity.

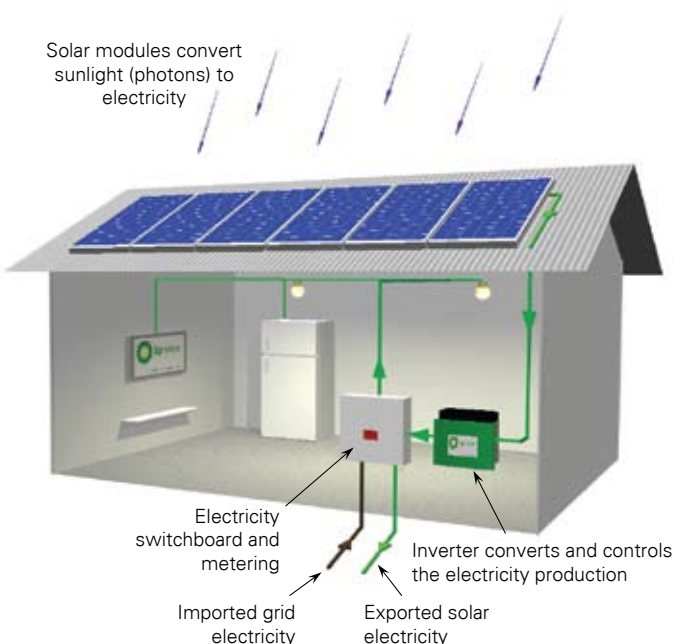
When your Solar Energizer generates more power than you use, any excess electricity flows into the grid effectively spinning your electricity meter backwards and building a credit against your bill.

The Solar Energizer system includes an LCD display on the inverter as standard and is compatible with our optional display products, including wireless in-home displays, large screen displays and LED message boards.

### 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 and provide a fixed generation cost. Installing a Solar Energizer system will add value to your home or building and is a very attractive asset for prospective buyers.

Our systems also feature class-leading power tolerances ensuring that maximum energy is delivered each year. This is valuable for solar system owners, particularly in areas with feed-in tariffs in place.

#### Support for the future

The BP Solar panels used in the Solar Energizer kits are designed to withstand the harshest of weather conditions, including hail. You can rest easy in the knowledge that the solar panels in your Solar Energizer system are backed by a 25-year power output warranty and the strength of the BP name.

BP Solar is proud to have more than 30 years experience supplying solar systems in Australia. We can give you the peace of mind you need when investing in solar.



Grid connect kit

# 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 a range of sizes and is expandable as your power demand and budget grows.

The innovative mounting system includes anti-theft fittings and allows the system to be fitted to corrugated metal or tile roofs and to a variety of roof shapes, quickly and simply.



## Everything you need

The Solar Energizer kit includes the following:

- Complete accessory kit (including warning labels, DC isolators and quick connect plugs and sockets) saving you time and money and ensuring safety and code compliance.
- 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 a 10-year warranty and LCD display to view your solar system's performance.
- Detailed manuals, including an easy-to-read owner's manual and a technical manual for installers.

## How much electricity will I generate?

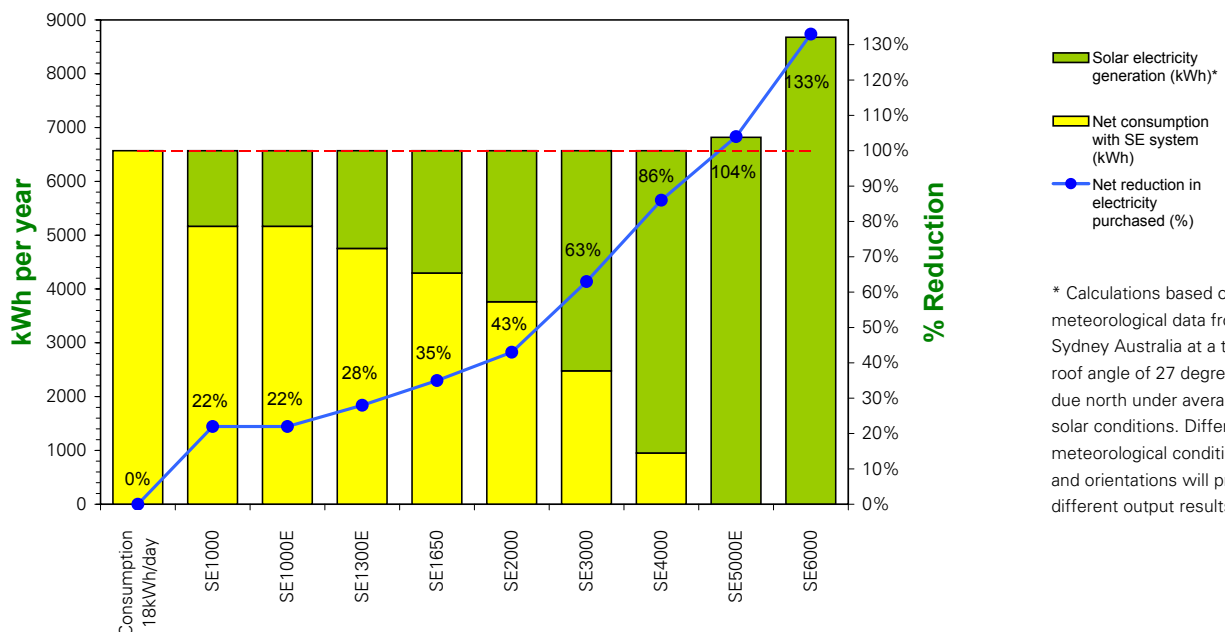
The peak generation of power is on a cool, clear day when the sun is perpendicular to the solar array. Clouds, seasonal changes in the angle of the sun, array soiling, roof orientation and any incidental shading may impact on the performance.

The graph below can be used as a guide to typical power generation by the various kits sizes. It allows you to match a system to your electricity requirements.

An average Australian home consumes about 6,570kWh per year and would require a larger system to cover most or all the energy consumed.

You can find your average consumption figure in kilowatt-hours (kWh) on your electricity bill and use it to help determine the right size system for you. For a more detailed assessment of your power needs, please contact your local BP Solar representative by calling 1800 802 762.

## An average house with a Solar Energizer system



\* Calculations based on meteorological data from Sydney Australia at a typical roof angle of 27 degrees, facing due north under average annual solar conditions. Different meteorological conditions, tilts and orientations will produce different output results.



## Grid connect kit

# Solar Energizer

### Solar Energizer system sizes and characteristics

#### Solar Energizer 1000

Nominal solar power output <sup>(1)</sup>	1020W
Solar panel type and quantity	BP3170N x 6
Quantity of rail kits	2 x 3 panel units
Approximate area/weight on roof	7.8m <sup>2</sup> /150kg
Inverter model	SB1100

#### Solar Energizer 1000E

Nominal solar power output <sup>(1)</sup>	1020W
Solar panel type and quantity	BP3170N x 6
Expandability (maximum)	2040W (12 panels)
Quantity of rail kits	2 x 3 panel units
Approximate area/weight on roof	7.8m <sup>2</sup> /150kg
Inverter model	SB1700

#### Solar Energizer 1300E

Nominal solar power output <sup>(1)</sup>	1320W
Solar panel type and quantity	BP3165N x 8
Expandability (maximum)	3960W (24 panels)
Quantity of rail kits	2 x 4 panel units
Approximate area/weight on roof	10.4m <sup>2</sup> /200kg
Inverter model	SB3800

#### Solar Energizer 1650

Nominal solar power output <sup>(1)</sup>	1650W
Solar panel type and quantity	BP3165N x 10
Quantity of rail kits	2 x 3 and 1 x 4 panel units
Approximate area/weight on roof	13.0m <sup>2</sup> /250kg
Inverter model	SB1700

#### Solar Energizer 2000

Nominal solar power output <sup>(1)</sup>	2040W
Solar panel type and quantity	BP3170N x 12
Quantity of rail kits	4 x 3 panel units
Approximate area/weight on roof	15.6m <sup>2</sup> /300kg
Inverter model	SB1700

#### Solar Energizer 3000

Nominal solar power output <sup>(1)</sup>	2970W
Solar panel type and quantity	BP3165N x 18
Quantity of rail kits	6 x 3 panel units
Approximate area/weight on roof	23.4m <sup>2</sup> /450kg
Inverter model	SB2500

#### Solar Energizer 4000

Nominal solar power output <sup>(1)</sup>	4080W
Solar panel type and quantity	BP3170N x 24
Quantity of rail kits	6 x 4 panel units
Approximate area/weight on roof	31.2m <sup>2</sup> /600kg
Inverter model	SB3800

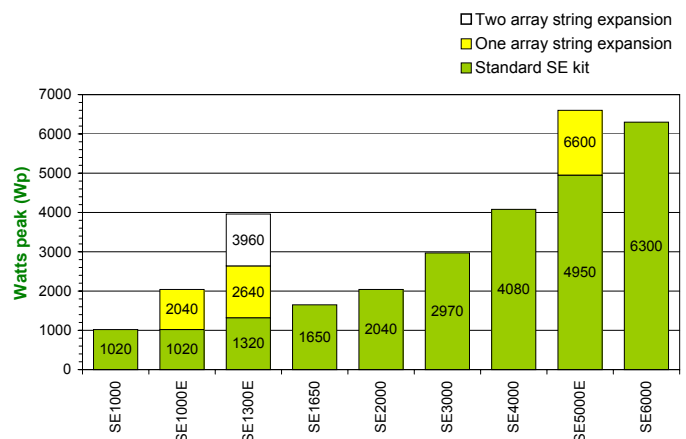
#### Solar Energizer 5000E

Nominal solar power output <sup>(1)</sup>	4950W
Solar panel type and quantity	BP3165N x 30
Expandability (maximum)	6600W (40 panels)
Quantity of rail kits	2 x 3 and 6 x 4 panel units
Approximate area/weight on roof	39.0m <sup>2</sup> /750kg
Inverter model	SMC6000

#### Solar Energizer 6000

Nominal solar power output <sup>(1)</sup>	6300W
Solar panel type and quantity	BP3175N x 36
Quantity of rail kits	9 x 4 panel units
Approximate area/weight on roof	46.8m <sup>2</sup> /900kg
Inverter model	SMC6000

### Solar Energizer kit sizes and expandability



Note:

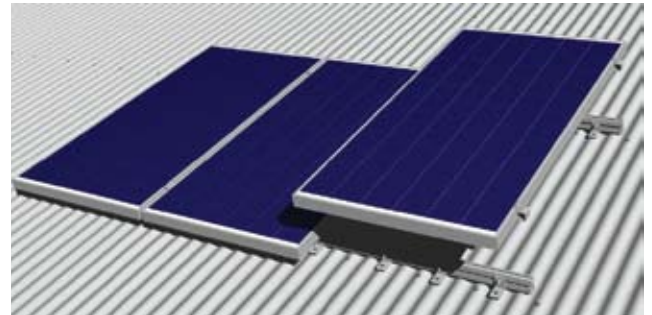
The graph above indicates the wattage in the standard Solar Energizer kits. It also indicates the additional number of panels that can be added to the standard Solar Energizer kit in the form of array strings.

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/m<sup>2</sup>, AM density 1.5 and cell temperature of 25°C).

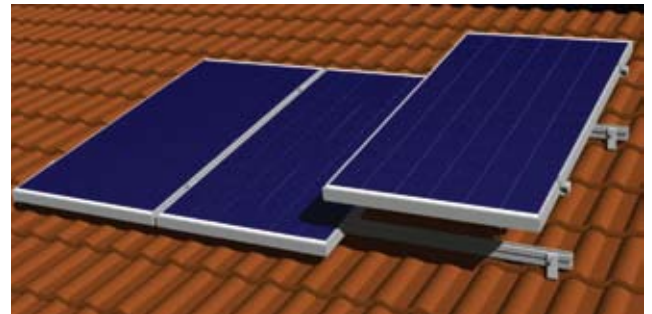


Grid connect kit

# Solar Energizer



Corrugated metal roof mounting system.



Tile roof mounting system.

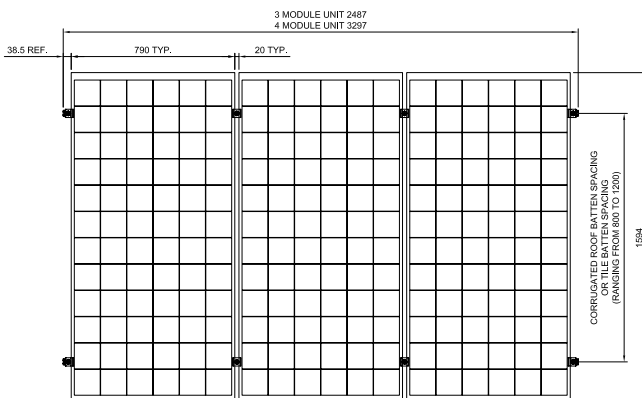
### Other characteristics

Inverter output voltage (nominal)	240V AC, 50Hz
Operating temperature	-25°C to 70°C
Mounting angle design range	10° to 45°
Maximum wind speed regions <sup>(2)</sup>	
corrugated metal tile	Region C (cyclonic) <sup>(3)</sup> Region B (intermediate)
Solar panel warranty	25 year power output (see warranty sheet for terms and conditions)
Inverter warranty	10 years (see warranty inverter manual for terms and conditions)

### Sales and Service network

Via our extensive Distributor and Dealer network that spans Australia and New Zealand, we can supply you with individual products or complete, professionally designed solar electricity systems.

With a 25-year power output warranty on our solar panels, we can give you the peace of mind to invest in solar today.



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

Your BP Solar Dealer:

2. Regions based on AS1170. Conditions apply in relation to the effects of terrain categories and topographic multipliers. These can affect suitability for fixing with in the various regions. Each site must be assessed prior to any installation to confirm suitability.  
 3. Additional brackets are required for mounting to corrugated metal roofs in Region C (Cyclonic) Terrain Category.

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.