

# SOLAR ELECTRICITY

## YOUR OWN MINI POWER STATION



GLOBAL LEADERS



## Electricity free from the sun

Install a solar PV system and save money whilst also doing your bit for the environment

### Your own mini power station

Solar electric panels generate electricity using the photovoltaic (PV) effect. The solar panels are fitted to your roof and convert light into electricity.

In effect, your home becomes a mini power station generating electricity and supplying it to the grid for use by you or your neighbours. How much you can sell to the grid will depend on the size of your system, your consumption and whether it is connected via net or gross metering.

### Net Metering

When you use electricity you are using solar generated power and/or power from the grid if the solar energy is insufficient. If you are using little or no electricity, your solar system is feeding electricity back into the grid and the electricity retailer buys that power from you, at the applicable feed-in tariff. This tariff varies from state to state and can be much higher than the supply rate.

### Gross Metering

In some states, for example New South Wales and ACT, all the solar generated power is fed directly back to the grid and the electricity retailer buys that power from you at the applicable feed-in tariff.

### The Benefits of Solar Electricity

- Clean and free electricity from the sun
- No greenhouse gas emissions
- Reduced or eliminated electricity bills
- Protection against rising electricity costs
- Silent operation with no moving parts
- Easy, quick installation by licensed, accredited electricians
- Increased value of your home or business
- Additional solar panels can be added later
- Long warranties, long life
- Reduced pay-back periods due to generous government incentives

### Installation

Chromagen designers and installers are accredited by the Clean Energy Council which means:

- They have undergone the necessary professional training
- They follow industry best practice

- They must adhere to Australian Standards
  - They routinely update their skills and product knowledge
- In addition, Chromagen installers are licensed electricians.

### Warranty

All Chromagen solar electric systems come with the following warranties:  
Solar modules – 25 year limited warranty  
Grid-connect inverter – 5 year warranty  
Roof mount framing – 10 year warranty  
Installation on site – 1 year warranty

### Energy Efficiency

Customers are also encouraged to employ energy efficiency initiatives to optimise their savings and benefits.

Your local Dealer / Distributor is:



Chromagen Pty Ltd

☎ 1300 367 565

[www.chromagen.com.au](http://www.chromagen.com.au)



# SYSTEM SPECIFICATIONS

## Electrical Characteristics

Maximum Power	$P_{max}$	170W*	190W
Open Circuit Voltage	$V_{oc}$	44.5V	44.8V
Short Circuit Current	$I_{sc}$	5.12A	5.78A
Maximum Power Voltage	$V_{mp}$	35.9V	35.8V
Maximum Power Current	$I_{mp}$	4.74A	5.33A
Module Efficiency (%)		13.3	14.9
Tolerance		+/- 5%	

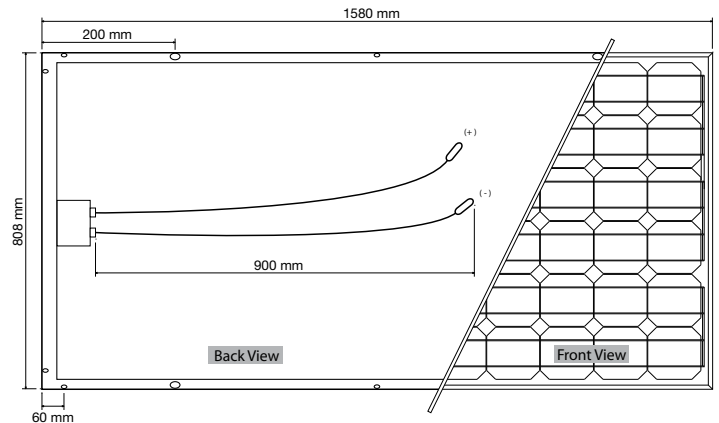
Electrical characteristics at Standard Test Conditions (STC), defined as: Irradiance of 1000W/m<sup>2</sup>, Spectrum AM 1.5, and Cell temperature of 25°C.

## Mechanical Specifications

Dimensions	1580mm x 808mm x 45mm
Weight	15 kg
Frame	Aluminium-alloy

## Standards

- All inverters are compliant with AS 4777, AS 3100 and have a Certificate of Suitability
- All PV modules are compliant with IEC 61730 (class A) and IEC 61215.
- All installations of photovoltaic (PV) arrays are compliant with AS/ NZS 5033 and AS/NZS 3000 (The Australian Wiring Rules)



## System Characteristics

System size	1kW	1.5kW	2kW	3kW	4kW	5kW
170W* number of panels / (roof space required)	6 / (8m <sup>2</sup> )	-	12 / (16m <sup>2</sup> )	-	24 / (32m <sup>2</sup> )	30 / (40m <sup>2</sup> )
190W number of panels / (roof space required)	-	8 / (11m <sup>2</sup> )	-	16 / (22m <sup>2</sup> )	-	-
Zone 1-3 (kWh per Day) <sup>1</sup>	4.5 - 5	6.75 - 7.5	9 - 10	13.5 - 15	18 - 20	22.5 - 25
Zone 4 (kWh per Day) <sup>1</sup>	3.5	5.25	7	10.5	14	17.5

<sup>1</sup> Output based on optimal installation direction averaged on an annual basis. Performance varies by location.

\*170W Panels may change to 175W poly due to availability.

System specifications may change without notice.

