



- Solar Power -

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## Introduction

Home Energy; decentralised power generation is now available!

Home Energy has launched a modular and expandable system of sustainable power generation for private households and small businesses. These are affordable, innovative products to generate sustainable electricity and heat, making the user self-supporting (to some extent).

We offer a large range of high-quality renewable energy products, specifically aimed at your situation and needs, including:

- Central Heating units running on biomass (wood pellets; pellets); savings around 38%;
- Solar collectors especially designed for optimising the generation of heat, even in areas with a low number of sunshine hours (like in our region); efficiency on average 70-80% both in summer and in winter;
- PV Panels: power generators using solar energy;
- Energy Ball V100, a small windmill with an artistic look for private households, very quiet and generates 15% of the annual electricity need for the average household.

## Solar energy (PV)

### The sun is our main source of energy

Intelligent use of the sun will help us to maintain the natural balance. Worldwide, our total annual energy consumption adds up to the solar energy from only 20 minutes of sunshine on planet Earth.

In our region, this equates with approximately 1000 Watt/m<sup>2</sup>, ready to be captured. Home Energy solar panels have been specifically designed to turn such energy into electricity in an efficient manner.

### How much will your household need to generate a sufficient amount of electricity?

The average household will use approximately 3500 kWh a year. Some 30m<sup>2</sup> of solar panels will be sufficient to provide for this average annual need.

To provide for your energy need in a sustainable manner, we suggest the purchase of our solar panels in combination with our (low-noise!) EnergyBall®. Such combination will enable you to generate energy under any weather conditions and at any time during the year. Your Home Energy dealer will be happy to discuss all your options for the purchase and installation of both systems.

### Save on your power bill and save the planet!

Solar energy is an environmentally friendly source of energy. Each and every kilowatt hour generated by solar energy saves approximately 1 kilogram of CO<sup>2</sup> compared with generation through conventional (fossil) sources. Besides, solar energy (PV) is causing no bad smells or noise pollution for people living in the neighbourhood.

With advice on quality we provide a budget-friendly and aesthetically sensible solution to the best possible integration of solar panels in your specific situation. Our advice goes for both private customers and large-scale projects with the option for “state-of-the-art building-integrated” solutions.

HomeEnergy Westerlo



## Specifications

### Technical specifications

Type		HE-SP 160	HE-SP 165	HE-SP 170	HE-SP 175	HE-SP 180
Dimensions	mm	1589 x 806 x 46	1589 x 806 x 46	1589 x 806 x 46	1589 x 806 x 46	1589 x 806 x 46
Peak capacity	Wp	160	165	170	175	180
Min. capacity	W	157,5	162,5	167,5	172,5	177,5
No. of cells		72	72	72	72	72
V Max	V	34,80	34,80	35,00	35,20	35,40
I Max	A	4,60	4,74	4,86	4,97	5,08
V (oc)	V	43,80	44,00	44,20	44,40	44,60
I sc	A	5,16	5,20	5,28	5,36	5,42
Weight	kg	15	15	15	15	15
System maximum	V	715	715	715	715	715
Operating temperature	T	-45°C +85°C	-45°C +85°C	-45°C +85°C	-45°C +85°C	-45°C +85°C
No. of diodes		3	3	3	3	3
Type of diode		10A10	10A10	10A10	10A10	10A10

Our products meet the most stringent requirements and have been specifically designed to the highest standards for an efficient output. The panels are fully resistant to ice, hail, gale-force winds and large fluctuations in temperature, and generate a sufficient amount of energy even under poor conditions. Our PV panels efficiently transform any incidence of light into electricity, even when the sun is hardly out – not a rare occurrence in our climate.

Our panels are made of silicon crystals covered with specifically designed glass. The base material of the glass is simply quartz sand.

All our products have undergone extensive testing and given a serial number. That is how we record our quality requirements, enabling us to extend a warranty for our products up to 26 years, depending on the purchased system.

Our technology offers an extremely long life, is maintenance-free and not liable to wear and tear.





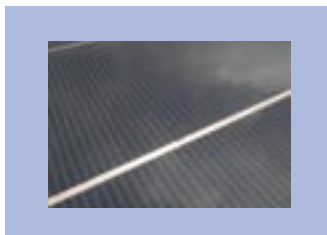
Windenergie



Biomassa



Zonne warmte



Zonne elektriciteit



HomeEnergy Indicator

## Home Energy

Via its dealer network, Home Energy is able to give every conceivable advice and information to the consumer in terms of new technologies on renewable energy. Qualified and reliable service engineers from your region are called in for installation of our products.

Go to our web site for more information on our suppliers and installers. Home Energy supports local councils and authorities, not only in their efforts to apply renewable energy themselves, but also to promote and introduce the concept to their residents.

Saving energy and decentralised sustainable power generation will become significantly more important in the future. The conclusion of a recent Belgian study commissioned by ANRE (2005/ETE-IMS/R) also clearly supports this point of view. It says that a considerable increase in the independent generation of sustainable energy is expected to keep energy consumption in the Netherlands and in Belgium affordable and environmentally friendly.

Government subsidies are available for a variety of our products. For further information on subsidies in the Netherlands, go to [www.senternovem.nl](http://www.senternovem.nl); in Belgium, go to [www.energysparen.be](http://www.energysparen.be).

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