

Photovoltaic

# VITOVOLT 200

**VIESSMANN**

climate of innovation



### Single glazed panel at an affordable price

Vitovolt 200 photovoltaic panels are available with monocrystalline and polycrystalline silicon cells. The photovoltaic panels are designed as a glass laminate construction. The individual solar cells are embedded between two plastic foils. The back cover is composed of a foil. Pane and foils are laminated together. This protects the cells against outside weather conditions.

The fully wired panel is particularly easy to install on the roof thanks to its low weight and the standard Viessmann assembly kits.

### Up to 25 years' warranty

Through the high quality standard applied to the selection of silicon cells and technologies, Viessmann offers an output warranty of up to 25 years. All necessary components, such as interconnecting cables and the inverter of the photovoltaic system, are perfectly matched.

### Easy installation

The assembly and connection of the photovoltaic panels are prepared at the factory. Electrical cables are simply pushed together; installation kits are available for vertical and horizontal rooftop installation. The stable aluminium frames ensure good inherent panel stability.

Installing a Vitovolt photovoltaic system on the roof turns every homeowner into a power generator. Fit photovoltaic panels onto the roof, plug leads together, connect an inverter, done!

### Vitovolt function explained

Basically, a mains-connected solar power system operates in three stages:

#### 1. Harvesting energy

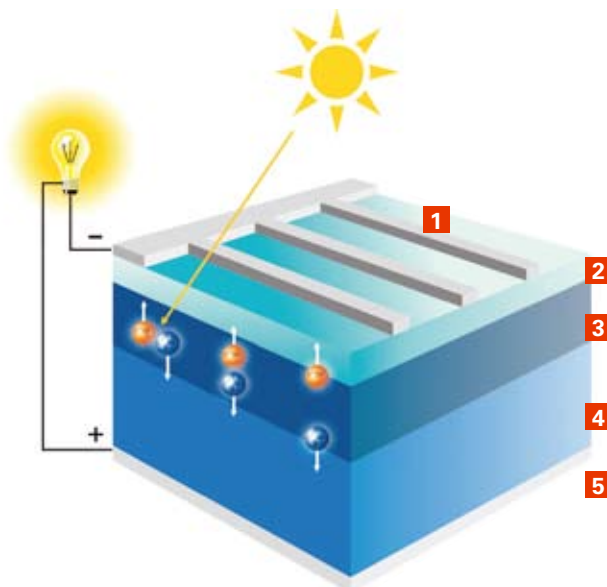
Electrons are released when light strikes the photovoltaic panels. Positive or negative charge carriers collect at the electrical contacts, resulting in a DC current between the front and back of the cell. This photoelectric effect is produced without mechanical or chemical reactions, and so is maintenance-free and not subject to wear.

#### 2. Power conversion

DC power produced by the solar generator is converted by the inverter into AC power, suitable for the power network (230 V AC at 50Hz). Proven safety standards and fully developed processors, as well as cutting edge power electronics, ensure effective conversion of the solar power.

#### 3. Energy utilisation

Contrary to stand-alone systems where the solar power must be stored in rechargeable batteries, systems linked to the mains feed all harvested power directly into the public grid. A separate meter is installed which monitors the power fed into the mains system. From April 2010 money can be earned for every kilowatt hour of energy generated with additional money for any energy fed into the grid.



### Vitovolt

- 1 Negative electrode
- 2 n-Dope silicon
- 3 Boundary layer
- 4 p-Dope silicon
- 5 Positive electrode



With around 12 m<sup>2</sup> of Vitovolt 200 panels, nearly half the power consumption of a detached house can be covered.



Vitovolt inverter.

#### Take advantage of these benefits

- Output warranty for up to 25 years through the high quality standard applied to the selection of silicon cells
- All necessary components for the photovoltaic system are perfectly matched
- Quick installation with cables that simply plug together, and complete installation kits
- Fully wired inverter with display – data capture via remote display is also possible
- High-quality single glazed panel with an attractive price/performance ratio

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## Technical Data Vitovolt 200

Specification available on request or at [www.viessmann.co.uk](http://www.viessmann.co.uk)

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