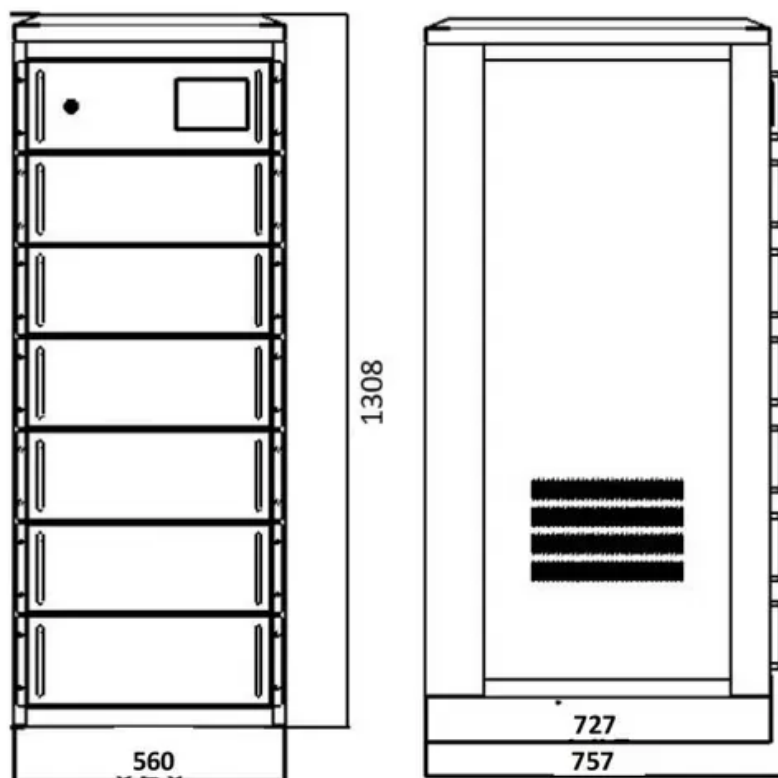


## PIENAAR ENERGY (PTY) LTD

**What is the name of the photovoltaic panel that generates electricity through light waves**



## Overview

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A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into electricity. Sunlight is composed of photons, or particles of solar energy. These photons contain varying amounts of energy. They use this sunlight to create direct current (DC) electricity through a process called "the photovoltaic effect." PV cells are made of materials that produce excited electrons when exposed to light. These electrons flow through a circuit and produce direct current. Solar PV panels are often described as "turning sunlight into electricity," but for many homeowners and first-time solar users, that explanation feels too simple.

## What is the name of the photovoltaic panel that generates electricity

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### what-is-a-photovoltaic-panel-and-how-does-it-generate-electricity

Photovoltaic panels are semiconductor panels that absorb direct sunlight and convert it into usable electricity for various use cases. These are usually made using silicon, and some new ...

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## How Do Solar PV Panels Generate Electricity

What actually happens inside a panel? Why does sunlight create usable power? And how does that electricity end up running your lights, refrigerator, or backup system? This article explains ...



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### How do solar panels work? Solar power explained

Solar panels work by converting incoming photons of sunlight into usable electricity through the photovoltaic effect.

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## How do solar panels work?

Solar panels rely on the photovoltaic (PV) effect to create power. Sunlight is transmitted through photons - massless particles of electromagnetic radiation - which contain varying amounts ...

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## Solar Photovoltaic Cell Basics

When light shines on a photovoltaic (PV) cell - also called a solar cell - that light may be reflected, absorbed, or pass right through the cell. The PV cell is composed of semiconductor material; the ...

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## What are photovoltaic cells?: types and applications

The photovoltaic cell (also known as a photoelectric cell) is a device that converts sunlight into electricity through the photovoltaic effect, a phenomenon discovered in 1839 by the ...

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## How Solar Cells Work , HowStuffWorks

The solar panels that you see on power stations and satellites are also called photovoltaic (PV) panels, or photovoltaic



cells, which as the name implies (photo meaning "light" and ...

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## Photovoltaics and electricity

A PV cell is made of semiconductor material. When photons strike a PV cell, they will reflect off the cell, pass through the cell, or be absorbed by the semiconductor material. Only the ...



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## Solar panel , Definition & Facts , Britannica

Solar panel, a component of a photovoltaic system that is made out of a series of photovoltaic cells arranged to generate electricity using sunlight. The main component of a solar ...

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