



Solar Photovoltaic Power Generation Terms

What is a photovoltaic solar system?

A Photovoltaic solar system. A linked collection of solar panels on a roof is called an 'array'. Power density is the amount of power per mass. PV inverters are measured by power density. The higher the power per mass, the better the inverter.

What is a solar energy glossary?

Our solar energy glossary offers a collection of key terms and phrases, explained simply and concisely. A type of electrical current that circuits and appliances in most homes utilize. Expressed as a sine wave, the current of AC passes through zero when it changes direction, which makes it a safer electrical current.

What is a photovoltaic generator?

Photovoltaic (PV) Generator: The total of all PV strings of a PV power supply system, which are electrically interconnected.

What is a photovoltaic (PV) cell?

Photovoltaic (PV) Cell: The smallest semiconductor element within a PV module to perform the immediate conversion of light into electrical energy (direct current voltage and current). Also called a solar cell.

What is photovoltaic conversion efficiency?

Also called a solar cell. Photovoltaic (PV) Conversion Efficiency: The ratio of the electric power produced by a photovoltaic device to the power of the sunlight incident on the device.

What is a photovoltaic device?

Photovoltaic (PV) Device: A solid-state electrical device that converts light directly into direct current electricity of voltage-current characteristics that are a function of the characteristics of the light source and the materials in and design of the device.

Solar Power - Power generated by the sun, either through photovoltaic technology or concentrating solar power (CSP) or solar thermal. Solar Installer - A company ...

Solar Energy Glossary of Photovoltaic Terms is a comprehensive collection of terms pertaining to solar installations, solar electricity, and solar power generation. The definitions included relate to photovoltaic, concentrated solar power, and solar thermal technologies.

Confused by Solar Power Terms and Wording? This list of words and terminology typically used in the Solar Power industry will help you to understand the meaning ...



Solar Photovoltaic Power Generation Terms

Confused by Solar Power Terms and Wording? This list of words and terminology typically used in the Solar Power industry will help you to understand the meaning of the solar-specific words you hear and see when talking about Solar Power and understanding your solar power quote. Select a letter of the alphabet to jump there.

A solar array -- also known as a photovoltaic (PV) array -- is a group of connected solar panels that work together to produce more electricity than a single solar panel can. It's a way to harness the sun's energy, convert it to electricity for and use it to power our homes and buildings.

Solar Cell - A solar cell is a device that converts the energy of sunlight directly into electricity using the photovoltaic effect. Assemblies of cells are used to make solar panels. Solar Panel - A packaged, interconnected assembly of solar cells also known as a solar module.

Let's delve into some essential terminology that defines solar energy, its design, installation, equipment used, monitoring, and maintenance. Solar energy is the radiant light and heat from ...

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Solar Photovoltaic (Solar PV) - Technology that converts solar energy to usable electricity which can be used, stored, or converted for long-distance transmission. A photovoltaic system minimally includes an array of solar panels, an inverter, and interconnection wiring.

Solar panels, also known as photovoltaic (PV) modules, are the heart of a solar power system. They consist of interconnected solar cells, typically silicon, which absorb sunlight and convert it into electricity through the photovoltaic effect. The size and number of solar panels determine the overall energy-generating capacity of the system.

Array Current: The electrical current produced by a photovoltaic array when it is exposed to sunlight. Array Operating Voltage: The voltage produced by a photovoltaic array when exposed to sunlight and connected to a load. Autonomous System: See stand-alone system.

Let's delve into some essential terminology that defines solar energy, its design, installation, equipment used, monitoring, and maintenance. Solar energy is the radiant light and heat from the Sun, harnessed using various technologies like photovoltaics, solar ...

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A PV panel, also referred to as a solar panel, is comprised of photovoltaic solar cells connected in a series. PV panels are installed on the rooftop where they absorb photons (light energy) to generate electricity. PV panels are connected in a string to form a complete solar-power-generating unit called a PV array.

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