

AC power generation from solar panel

ABSTRACT

A generator converts mechanical energy into electrical energy. Nearly a century ago a battle between two of America's most influential inventors decided the power we use today. Thomas Edison's invention's generated and utilized DC power and Nikola Tesla's inventions used his newly discovered AC power. Tesla's AC eventually won out because it could be transferred over long distances more efficiently. Solar power is conversion of solar energy into useful energy that can be used in homes and businesses. Sunlight is converted into electrical energy using solar cells. The array of photovoltaic power system or PV system produces direct current (DC)power which fluctuates with the sunlight's intensity.

For practical use this requires the conversion to certain desired voltages or alternating current (AC), through the use of inverters. The "Solar AC Power Generator" achieves the same result at a lower cost and with less energy loss by producing alternating current directly instead of relying on additional equipments.

Solar AC Power Generator consists of solar cells arranged into a circular pattern. Above the solar cells is a spinning disc with slots which controls each cell's exposure to light and darkness resulting generation of AC supply.

This is truly a transforming technology. The Solar AC Power Generator has the potential to reduce the use of fossil fuels tremendously if you just imagine them installed photovoltaic solar power centers around the country generating supplemental power for the grid. This may also reduce the effects of greenhouse gases if there are such generators all over India. The existing solar systems along with the drawbacks associated with it are mentioned in the following chapter.

