

Solar inverter with energy storage function





Overview

What is the role of the solar inverter?

The solar inverter is one the most important components of a Solar photo Voltaic (PV) system. The role of the solar inverter is so significant that it is also referred as the brain of the solar photo voltaic system. Along with the solar inverter, the solar charge controller plays a significant role in making the system work efficiently.

Why should I choose a solar inverter?

This is because inverters are more efficient when working at their maximum power and most of the time the array is not at peak power. Using software like PV Sol takes in to account variations in different solar panels and local weather conditions. Both of which may affect your choice of inverter.

Can a solar inverter generate a lot of electricity?

Voltage and current ranges vary from inverter to inverter. You may have one installed that appears to work fine, however when either the voltage or current reaches extremes of light levels or temperature (temperature affects the solar panel's voltage) then your inverter may not be able to generate as much as it should.

How does a grid inverter work?

The grid inverter functions in two modes: as a front-end rectifier when transferring power from the grid to the battery, and as a voltage source inverter when feeding power from the PV/battery back to the grid. It incorporates a full-bridge PWM inverter with an LC output filter to inject synchronized sinusoidal current into the grid.



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