

Inverter power tracking function





Overview

What is the function of solar power inverter?

The solar power inverter not only has the function of DC-AC conversion, but also has the function of maximizing the function of solar cells and system maintenance. This article mainly focuses on solar power inverter's automatic operation and shutdown function and maximum power tracking control function.

What is the maximum power tracking control?

This control is the maximum power tracking control. The biggest feature of inverters for solar power systems is that they include the function of maximum power point tracking (MPPT).

How do voltage source inverters work?

By controlling the DC-link voltage and facilitating the power transmission to the utility grid, the Voltage Source Inverters (VSI) in a single-stage PV system enables Maximum Power Point Tracking (MPPT). An LC low-pass filter interfaces the VSC AC side with the grid.

How does a PV inverter work?

The inverter adjusts the voltage or current to achieve maximum power extraction by: Sampling PV voltage and current continuously. Running the selected MPPT algorithm. Adjusting switching duty cycles or voltage references accordingly.



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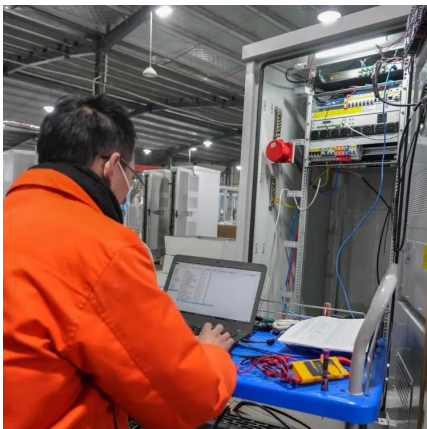
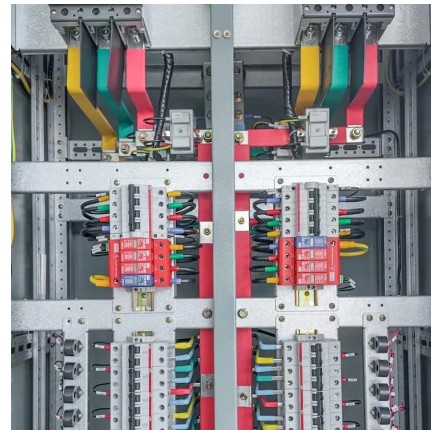


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How to test the maximum power point tracking function of the inverter

It supports multiple protection functions such as OVP, OCP, OPP, reverse connection protection, etc. In addition to solar panel simulation and maximum power tracking, it can also test the ...



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Maximum Power Point Tracking (MPPT) algorithms

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