

Resonance mechanism of photovoltaic cluster inverter

Photovoltaic cluster power generation can improve the power generation efficiency of photovoltaic power plants, but the photovoltaic cluster inverter will produce resonance after the grid, affecting the safe ...

To suppress grid-connected resonance, the mathematical model, resonance mechanism and resonance characteristics of the cluster inverters are analyzed, and a global resonance ...

Abstract: A resonance problem in the cluster system of string-type photovoltaic cluster using LLCL type inverters, this paper analyzes the resonance mechanism of the cluster system and proposes a ...

Therefore, this paper analyzes the structure of photovoltaic grid-connected systems, and derives the resonance mechanism and resonance characteristics of grid-connected inverter cluster systems ...

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Due to the non-negligible impedance of the long-distance transmission line, the string-type photovoltaic inverter cluster system will resonate with the impedance of the grid in the weak ...

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This paper investigates the problem of resonance suppression for systems composed of inverters with different parameters. Grid voltage proportional feedforward control enhances the ability to...

Roof solar inverters are often connected in cluster form in parallel at the point of common coupling (PCC) and then connected to the grid to improve system capacity and power generation ...



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