

Title: Grid-connected inverter circulating current

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In this paper, modeling of the parallel grid-connected three-phase inverters and the cause of the zero-sequence circulating current are presented in detail.

Therefore, this paper presents a global control strategy for a grid-connected parallel interleaved converter based on the concept of Port Controlled Hamiltonian (PCH). With this ...

In this paper, circulating current resonance of paralleled inverters with asynchronous carriers is analyzed, which is closely related to the sideband effect of sinusoidal pulse-width modulation (SPWM).

This study examines a three-phase dual-frequency grid-connected inverter designed to minimize switching losses by reducing the switching frequency in the energy transmission channel.

The power handling capacity of a grid connected converter system can be increased by connecting inverters in parallel. It offers advantages such as modularity,

And here's the problem: Because the current limiter curtails the output power of the GFM inverters during grid disturbances, the inverter is even more vulnerable to losing synchronization and causing ...

Aiming at the problem of large harmonic distortion of grid-connected current in high-power grid-connected power generation system under weak sunlight, multiple

Simulation and experimental results verify the effectiveness and correctness of the proposed controller design approach for grid-connected harmonic current suppression.

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