Photovoltaic inverter AC confluence circulation

The AC side of inverters may be electricity grid or microgrid by grid filter to decrease the harmonic content of the inverter"s output current and to convert the inverter"s voltage into a grid current.

This paper proposes a non-communication-based circulation suppression strategy to suppress power circulation in parallel transients based on the local information of inverters.

A communication-free method of controlling the circulating current between parallel-connected inverters is developed and verified. Keywords: PV inverters, circulating current, parallel ...

This thesis evaluates the circulating currents between two parallel connected inverters of a solar PV power plant by using simulations and laboratory measurements.

This paper presented a low-cost and low-power single-phase power DC-AC converter for grid-connected PV arrays and its control strategy. The topology is based on a boost-buck converter ...

Modular inverters have a closed circuit when each inverter shares the common DC source and AC bus. The circulating current is generated by differences in each inverter, such as ...

Abstract--This paper considers future distribution networks featuring inverter-interfaced photovoltaic (PV) systems, and ad-dresses the synthesis of feedback controllers that seek real- and reactive ...

For the problem that common-mode circulating current exits in the high power photovoltaic grid-connected inverter system with separate DC side and parallel AC s

Second aspect of the present utility model provides a kind of photovoltaic plant, and described photovoltaic plant comprises the inversion system that confluxes as described in the...

Aiming at the zero sequence circulating current problem of multi machine photovoltaic grid connected inverter, a repetitive control strategy is proposed.

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