Three-phase inverter parallel circulation control

The paralleled configuration of three-phase two-level (3P2L) inverters has been put forward to increase the output power rating, operating efficiency, and system reliability.

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.

In this work, a control technique for the elimination of the low-frequency components of the circulating currents in grid-connected inverters is presented. The proposed ...

There exists interconnection between these two issues in the paralleled 3P2L inverters. To suppress the CMV and circulating current simultaneously, an improved control method is ...

In this work, a control technique for the elimination of the low-frequency components of the circulating currents in grid-connected inverters is presented.

In this study, according to zero-sequence current modelling of fourth leg, the control strategy for suppressing circulating current is proposed.

Abstract: This paper introduces an innovative methodology for designing a synergetic controller (SYC) aimed at eliminating circulating currents and regulating speed in two parallel-connected ...

In order to effectively suppress the generation of circulation, this paper proposes a multiple proportional resonance control strategy for the parallel three-phase inverter system, ...

This paper proposes a novel variation of Field-Oriented Control for parallel inverters driving AC machines.

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The proposed strategy is implemented directly in the natural ...

In this paper, by developing and analyzing the averaged model of the circulating current dynamics for parallel three-level inverters, it"s found that the difference between the ...

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