

Abstract: This article presents an enhanced power quality solar photovoltaic (PV) inverter enabling common-mode leakage current elimination.

In this paper, a three-phase nine switch inverter with reduced leakage current is proposed to solve two problems. First, an auxiliary power supply based nine-switch (AP-H9) inverter is presented.

This paper presents a transformerless inverter topology, which is capable of simultaneously solving leakage current and pulsating power issues in grid-connected photovoltaic ...

In three-phase transformerless inverters, for systemic reasons, the oscillations are of a much smaller amplitude and, as a result, they generate smaller leakage currents. The pass-through of AC voltage ...

This paper takes three aspects which is topology, filter and modulation mode to discuss how to suppress common mode leakage current in inverters.

In order to solve the problem of leakage current in a full H-bridge PV inverter, bipolar PWM modulation can be used.

This work describes a new generalized circuit design named as X10 inverter for removing leakage current in an asymmetric lowered switch count cascaded multilevel inverter. The proposed approach ...

To suppress leakage current in multiple solar inverters, we propose a carrier phase-shift control strategy.

In this paper an analysis of the common-mode voltage and its influence on the value of the leakage current is described. The main topologies and strategies used to reduce the leakage ...

The experimental results show that the proposed control strategy suppresses the leakage current below 300 mA and can effectively control the NP potential shift and eliminate the midpoint ...

Web: <https://inalaaccelerator.co.za>