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In this paper, the role of SS is replaced by a SiC-based three-phase back-to-back (BTB) inverter system for seamless switching between grid-connected and standalone modes through ...

Hybrid H-bridge inverters combine elements from different inverter topologies to optimize appearance in terms of efficiency, harmonics and system complexity. The main aim is to ...

This article proposes a finite set model predictive control (FS-MPC) strategy for a three-phase, two-stage photovoltaic (PV) and battery ...

This article proposes a finite set model predictive control (FS-MPC) strategy for a three-phase, two-stage photovoltaic (PV) and battery-based hybrid microgrid (HMG) system.

This paper develops an integrated synchronization control technique for a grid-forming inverter operating within a microgrid that can improve the microgrid"s transients during microgrid ...

To ensure voltage and current stability during distribution system dynamics that may be caused by solar irradiation variations, the primary goal of this research was to design a ...

In this work, application of two different control strategies to three-phase DC-AC PWM inverter used in smart microgrid system, is analyzed.

A double loop control method is developed in this paper for a grid connected three phase inverter. The SVPWM strategy is developed to reduce the THD of inverter output voltage.

Additionally, when the MGI with traditional droop control is run in parallel, the reactive power in islanded microgrid cannot be distributed properly based on capacity due to ...

An inverter-driven black start of a heavily unbalanced 2-MVA distribution feeder using 1 three-phase and 3 single-phase GFM inverters is demonstrated. The simulation shows the ...

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