

Oct 12, 2022 In this paper, a direct power control (DPC) approach is proposed for grid-tied AC MG's photovoltaic (PV) voltage source inverter (VSI) to regulate directly active and reactive ?

Oct 4, 2024 This paper introduces a novel control algorithm leveraging artificial intelligence to address the key defects of Direct Power Control (DPC) via Grid Voltage Modulation (GVM) ?

Apr 23, 2025 In this paper, a linearized direct power control strategy for grid-connected inverters under distorted unbalanced grid voltage is proposed. The grid-connected inverters usually ?

Aug 6, 2020 Direct power control (DPC) is widely used in grid-connected inverters. First, considering the effects of phase-locked loop (PLL), voltage outer loop, power inner loop, ?

May 6, 2019 This paper proposes a power controller used for three-phase inverters with small dc-link capacitors fed by a single-phase diode rectifier. The effect of the reactive power was ?

Jun 10, 2021 Direct power control (DPC) is developed to, simultaneously, control the injected photovoltaic active power, reactive energy compensation, and the elimination of harmonic ?

Mar 19, 2025 Direct power control of grid connected voltage source inverters using port-controlled Hamiltonian system. International Journal of Control, Automation and Systems, 15, ?

Mar 7, 2025 Article Open access Published: 07 March 2025 Enhancement of power quality in grid-connected systems using a predictive direct power controlled based PV-interfaced with ?

May 6, 2011 This study presents an improved means of direct power control (DPC) of grid-connected voltage-sourced inverters (GC-VSIs) when the network voltage is unbalanced. The ?

Jun 25, 2025 ABSTRACT In this paper, a direct power control (DPC) approach is proposed for grid-tied AC MG's photovoltaic (PV) voltage source inverter (VSI) to regulate directly active ?

Aug 1, 2023 Abstract This paper presents a nonlinear direct power control (DPC) strategy for grid-connected voltage source converters based on adopting instantaneous active and ?

Nov 3, 2025 This paper introduces the model predictive direct power control (MPDPC) method, which

integrates a passive resistor?inductor?capacitor (RLC) filter and a parallel capacitor (C) ?

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Sep 25, 2024 In this paper, we propose a linear quadratic regulator (LQR) for a kind of three-phase two-level voltage source inverter on the basis of grid voltage modulated-direct power ?

Apr 30, 2015 This paper proposes a flexible grid connection technique of a voltage-source inverter (VSI) based on a direct power control strategy under unbalanced grid conditions. ?

Nov 8, 2022 The grid voltage modulated direct power control (GVM-DPC) is a novel power regulation method for grid-connected voltage source inverters (VSI). However, interactions ?

Jan 8, 2024 In this study, an improved anti-windup proportional-integral predictive direct power control strategy with a phase-locked loop (PLL) is proposed and applied to a three-level shunt ?

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