
The dual closed-loop control structure, consisting of an outer voltage loop and an inner current loop, is commonly employed to enhance performance. In conventional approaches, both loops ...

The simulation results show that the dual-closed-loop PI control algorithm can continuously stabilize the output waveform of the controllable voltage source.

In this paper, a novel dual closed-loop repetitive control strategy based on grid current feedback is proposed for single-phase grid-connected inverters with LCL filters.

trategy of the inverter must guarantee its output waveforms to be sinusoidal with fundamental harmonic. For this purpose, close loop current control strategies such as H? repetitive ...

A distribution generator (DG) is considered in this paper for connecting to utility grid through an inverter controlled by proposed double loop control technique. One voltage controlled loop and ...

A novel repetitive dual-loop control scheme of a grid-connected inverter with an LCL filter is proposed in this paper to realize precise control of grid-connected inverters.

dual-loop control strategy for grid-connected inverter with LCL filter was proposed, the system stability was analyzed

Therefore, this article uses a dual -closed control method to control the single -phase voltage PWM inverter. The rapid control of the output can improve the dynamic and ...

The utility model adopts a double-closed-loop control method, which has higher steady-state precision than the general digital closed-loop, has high-quality output waveforms, and has good...

At present, photovoltaic power generation has been appreciated by all countries, and the inverter, as an equipment to convert direct current into alternating cu

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