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Title: Inverter current and voltage dual closed loop

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strategy of the inverter must guarantee its output waveforms to be sinusoidal with fundamental harmonic. For this purpose, close loop current control strategies such as H² repetitive controller, dual closed ...

This paper presents a double-closed-loop PWM design and control method for single-phase inverter current inner loop and voltage outer loop. By establishing the mathematical model of ...

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...

This paper has analyzed in detail the implementation principles and process of the three-phase LCL grid-tied inverter, and has adopted the dual closed-loop feedforward control method of voltage outer ...

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.

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

As the core device of the new energy production system, the grid-connected inverter plays a crucial role in transforming new energy into electrical energy. Rega.

The dual-loop control strategy for grid-connected in-verter with LCL filter in this paper can be used to control the currents of three phase grid-connected inverter, and it will let grid-connected inverter has ...

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 stable performance of the system.

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In this article, I propose a dual closed-loop current feedback control strategy to address these issues, leveraging inductor current feedback and grid current feedback to enhance damping ...

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