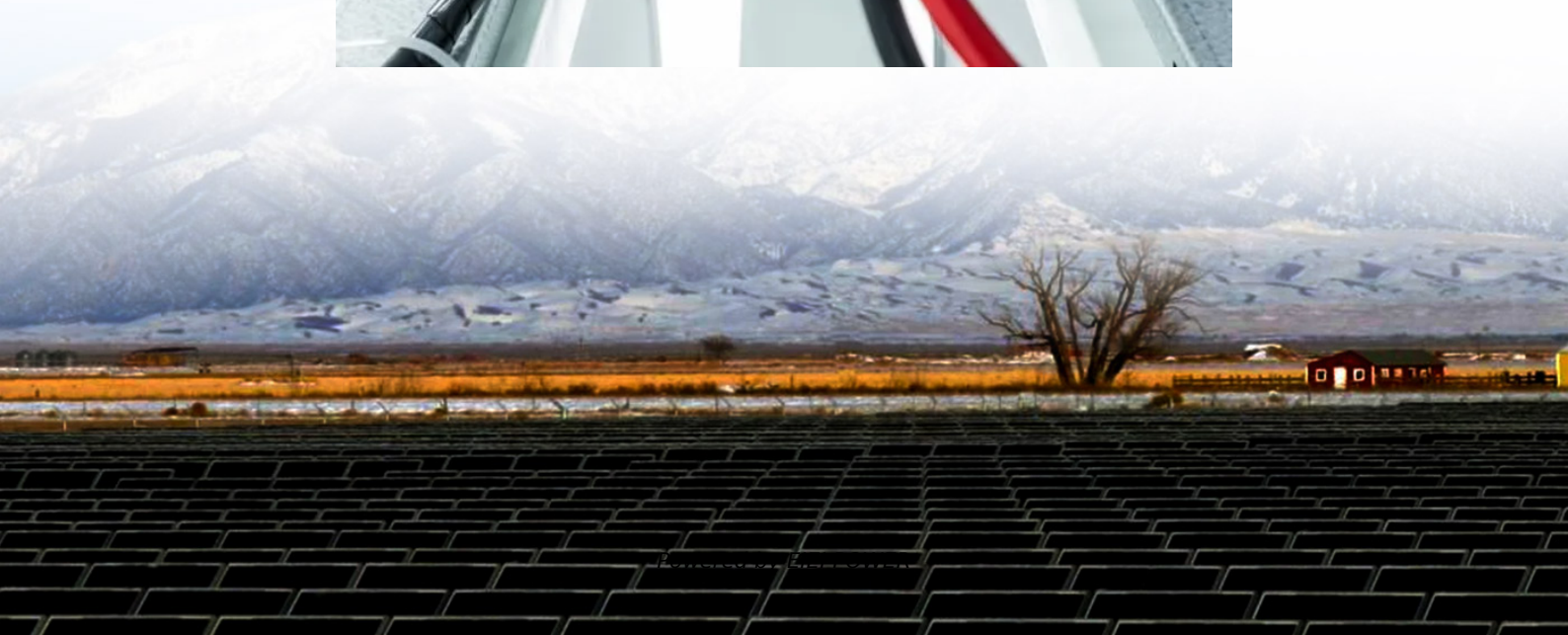


Phnom Penh single-phase anti-reverse current inverter





Overview

What is a current controller in a photovoltaic inverter?

A current controller is employed to mitigate the harmonics in the current injected into the grid and regulate the power exchange between the plant and the grid. This paper presents a review of the current control strategies implemented for a single phase grid tied photovoltaic inverter.

What is a single phase voltage source inverter (VSI)?

The residential areas are mostly served by single phase distribution system and a single phase voltage source inverter (VSI) is generally employed to interface the SPV based DG plant with the single phase grid. The power exchange between the DG and the grid can be accomplished by decoupling control of the AC current injected into the grid.

What are the current control strategies for single phase grid integrated photovoltaic inverters?

Conclusion This paper has reviewed the current control strategies for single phase grid integrated photovoltaic inverters. From the above study, it can be concluded that the MPCC scheme shows best steady state performance as compared to other schemes. It also achieves effective harmonic mitigation in terms of reduced THD value of output current.

How is harmonic pollution measured in a single phase grid tied inverter?

The rate of harmonic pollution in case of each current controller is measured in terms of THD. Fig. 12 shows the steady state grid voltage and output current waveforms for single phase grid tied inverter. The current is in phase synchronisation with the grid voltage and unity power factor is achieved in all cases.



Phnom Penh single-phase anti-reverse current inverter



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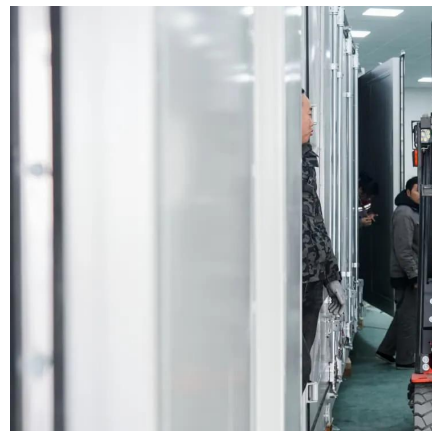
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Required equipment: PV grid-connected inverter, anti-reverse current meter, communication line between meter and inverter. This solution is applicable to only household PV scenarios.



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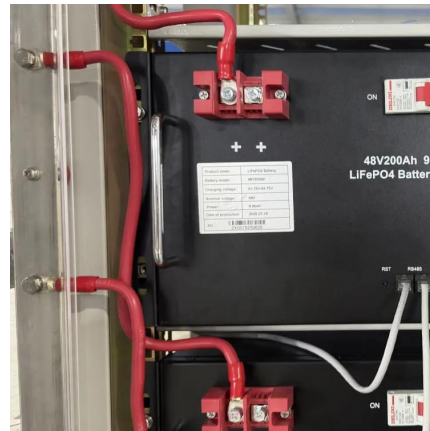
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