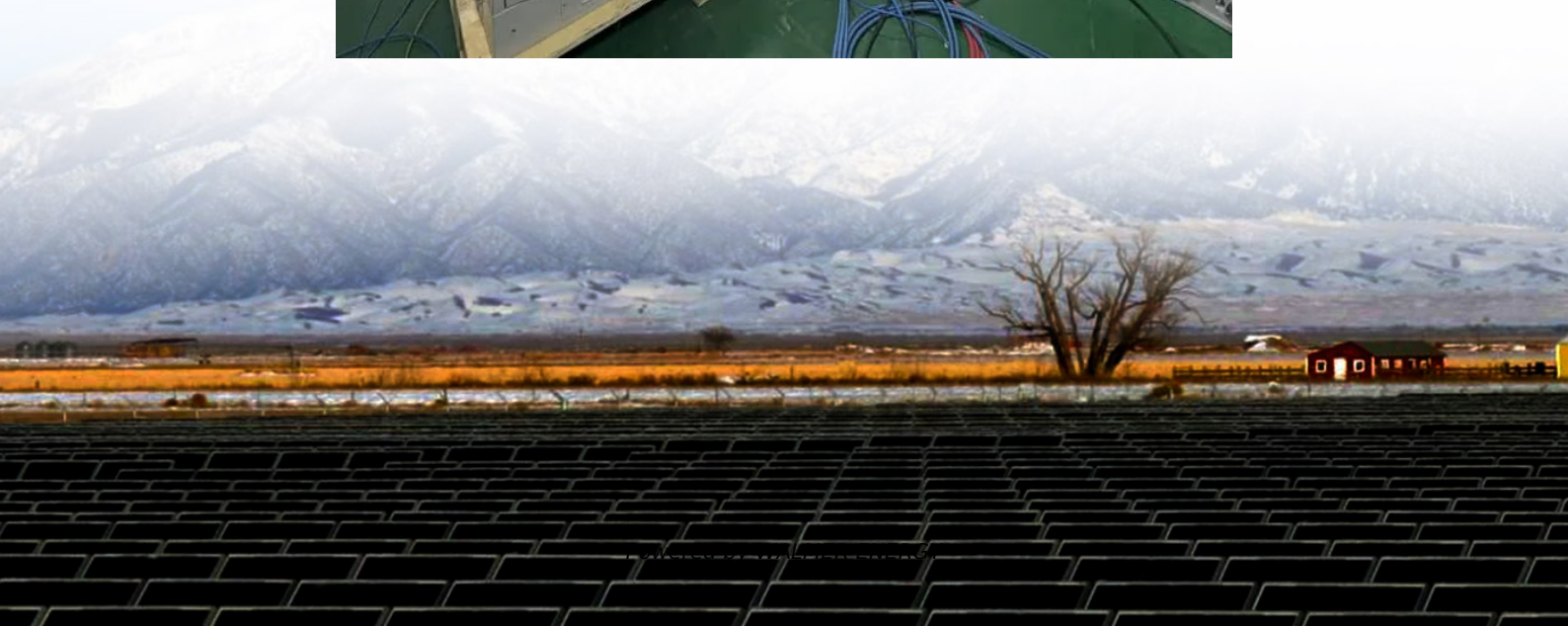


Inverter H6 has large DC component





Overview

What is H6 transformerless inverter?

Novel H6 transformerless inverter is proposed in this paper to eliminate the leakage current, reduce the conduction loss and increase the efficiency. The circuit for this inverter is shown in Figure 2.

What is H6 inverter topology?

A novel H6 inverter topology is proposed with improved modulation strategy to nullify the fluctuations in common mode voltage and to eliminate the leakage current. The proposed inverter is a modification to the existing H5 inverter, with an additional switch between the negative terminal of the DC supply and the first leg of the H bridge.

How does a H6 inverter work?

This novel H6 inverter maintains constant common mode voltage and hence is responsible for eliminating the leakage current. This is achieved by modifying the H5 topology by inserting one switch between the negative terminal of the PV and the midpoint of the first leg of the bridge circuit.

Can H6 inverter reduce leakage current in a single phase PV system?

Thus, for a single phase grid connected PV system, the proposed novel H6 inverter can be a promising topology for eliminating leakage current, reducing conduction loss and enhancing the inverter efficiency.



Inverter H6 has large DC component

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