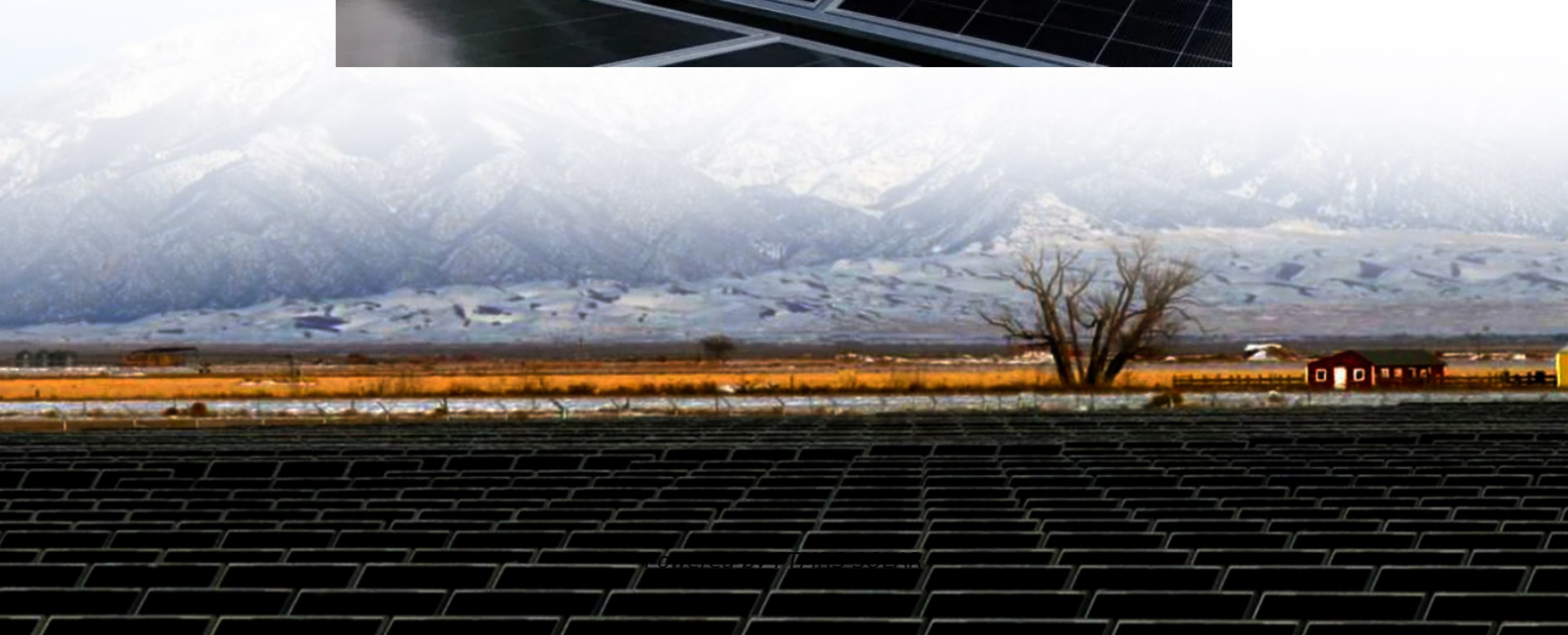


High frequency auxiliary inverter





Overview

What is a high frequency link inverter?

High Frequency-Link (HFL) Inverters have been employed to integrate renewable energy sources into utility grids and electric vehicles. The soft-switching range of High-Frequency Link Inverters (HFLI) is increased using auxiliary inductors and capacitors.

What is a high-frequency inverter circuit?

A high-frequency inverter circuit is a combination of a low-frequency power inverter circuit and RF power amplifier circuit, so, drawing on various types of switching mode power amplifiers in RF circuits to be applied to the WPT system is a very sensible choice.

What does an auxiliary inverter do?

The auxiliary inverter controls the electric motors of electric power steering (EPS), HVAC control, water pumps, brake vacuum pumps, oil pumps, compressors, and other applications which are key components in cars.

Are there high-frequency inverters for WPT systems?

This paper reviews the high-frequency inverters for WPT systems, summarizes the derived topologies based on power amplifiers and H-bridge inverters, investigates the main factors restricting the development of high-frequency inverters, and analyzes the research directions for future development. 1.

Introduction



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