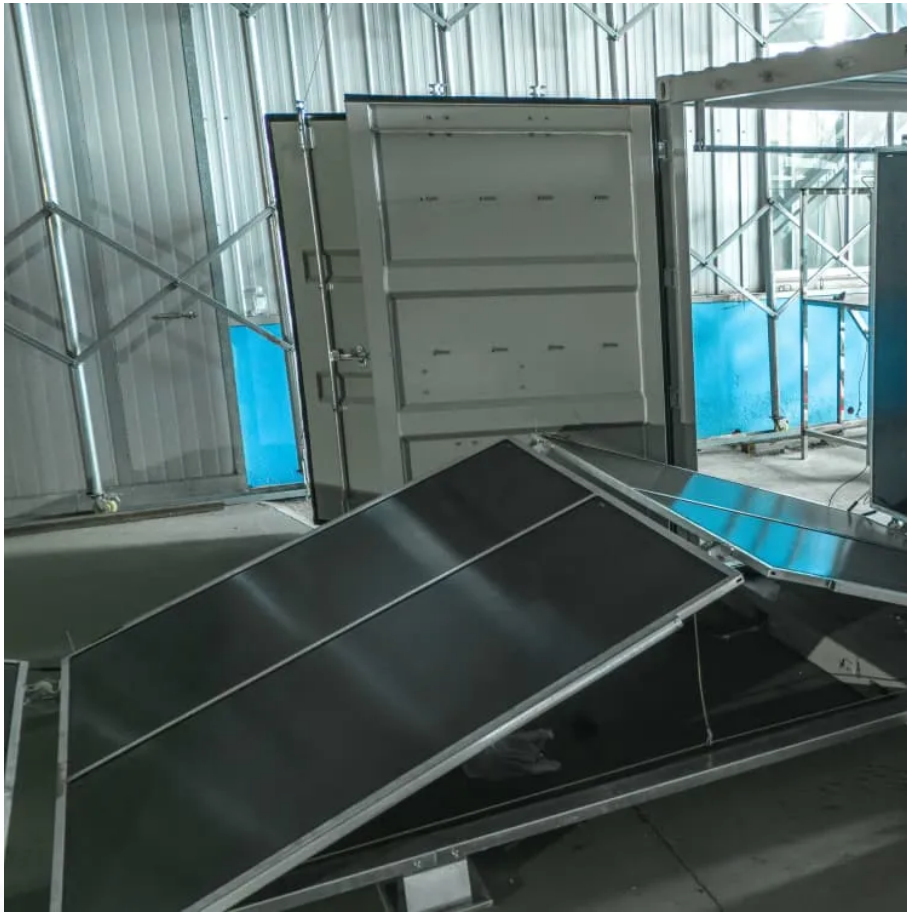


Adjustable high frequency inverter





Overview

What is a high frequency inverter?

I. INTRODUCTION Many applications - ranging from industrial plasma generation to wireless power transfer - require inverters (or power amplifiers) that can deliver power at high frequency (HF, 3-30 MHz).

Which type of inverter is suitable for HF operation?

In practice, one can utilize any type inverter suitable for HF operation under resistive/inductive loading; amplitude control of the individual inverters can be realized through any suitable means (e.g., supply voltage modulation, phase-shift or outphasing control, pulse-width modulation, etc.).

Can inverters provide efficient delivery of high-frequency power into variable load impedances?

VI. CONCLUSION This paper introduces an inverter architecture and associated control approach for providing efficient delivery of high-frequency power into variable load impedances while maintaining resistive/inductive loading of the constituent inverters for ZVS soft switching.

Is a new inverter architecture suitable for varying load impedances?

Abstract: This paper presents a new inverter architecture suitable for driving widely varying load impedances at high frequency (HF, 3-30 MHz) and above. We present the underlying theory and design considerations for the proposed architecture along with a physical prototype and efficiency optimizing controller.



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