

# Alofi high frequency inverter





## Overview

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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.

Are high-frequency inverters better than low-frequency?

**Weight:** High-frequency inverters are lighter than low-frequency inverters, using smaller, lighter transformers. **Efficiency:** High-frequency inverters are generally more efficient than low-frequency inverters for maintaining a constant load for lighter loads. However, they may struggle with high surge currents or heavy loads.

What is a high frequency inverter?

**Applications:** These inverters are more suitable for off-grid systems where heavy loads and extreme conditions are expected, such as in industrial applications or in remote locations with harsh environments. **Weight:** High-frequency inverters are lighter than low-frequency inverters, using smaller, lighter transformers.

What is a low frequency inverter?

**Efficiency:** Low-frequency inverters are known for their robustness and ability to handle high surge currents, making them suitable for powering heavy-duty appliances or equipment with high starting currents, such as motors and compressors.



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