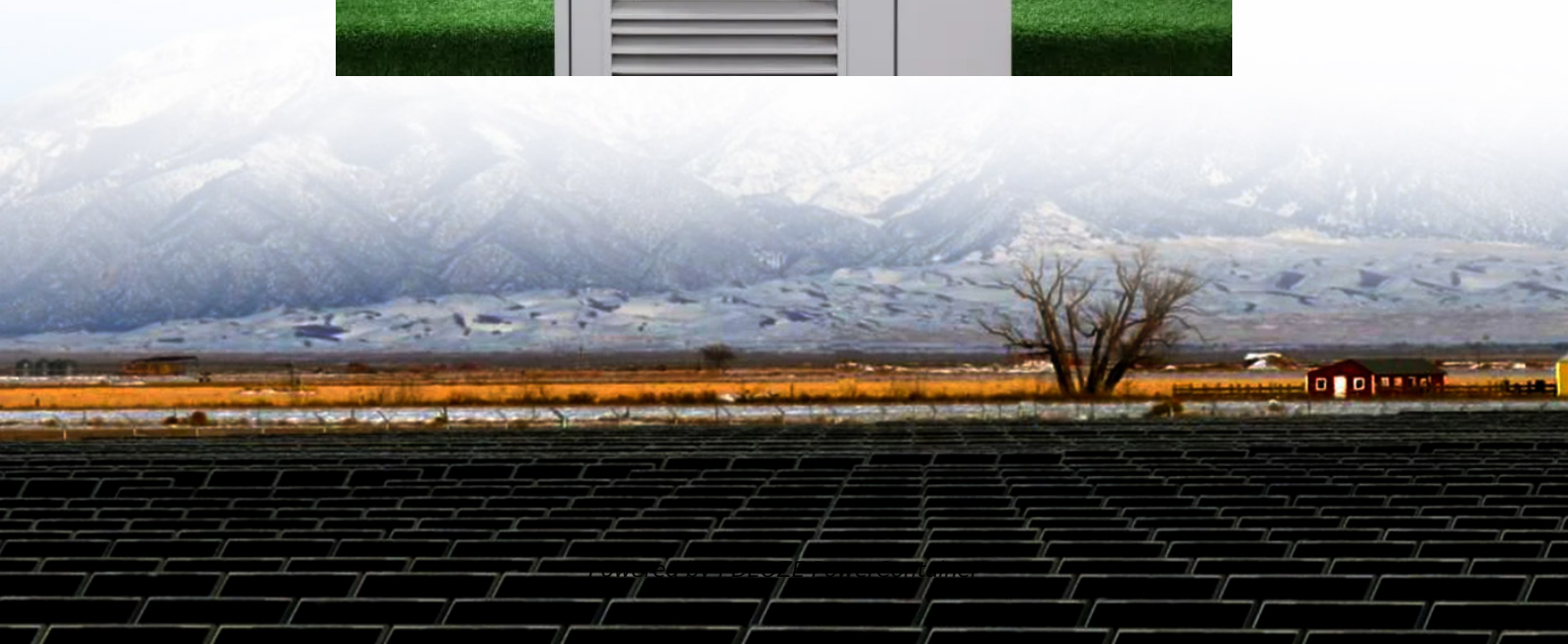


PDEOZE PowerContainer

Can a sine wave inverter be used with an amplifier



Overview

Here we'll how to convert audio amplifiers into pure sine wave inverters. We will consider 3 separate true sine wave inverter designs using appropriately dimensioned audio amplifiers, and digital sine wave generator circuits.

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This can be sent to the input of a power amplifier to get the required signal which can then be stepped-up using a suitable transformer. The amplitude can be changed by changing the feedback resistance on the amplifier.

While it's possible to run an amplifier with a power inverter, it's not always the ideal solution. Carefully consider the potential issues and choose the appropriate inverter for your needs.

I plan to use a XR2206 or ICL8038 for a basic sine wave generator. I like the idea of using a sine inverter and can run the transformer at a higher frequency for easier filtering and adjust voltage by a potentiometer after the function generator IC.

At any rate, this tutorial will show how to convert an old amplifier into a pure sine wave inverter that can be used with batteries or solar panels. This is a great way to get off the grid!

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As an example, CMOS inverters are used as inverting amplifiers (or buffers) in crystal oscillators, input amplifiers for converting low-amplitude signals to digital logic levels, or even simply as audio amplifier ...

A true sine wave high efficiency inverter is needed, more expensive than general purpose types. If you have a high power class AB or D amplifier, the inverter must also be ...

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I haven't looked at the inverter market in years, but you need a model that produces a nice clean sine wave at 60Hz. It won't matter how the filaments are powered.

Class-D amplifiers and switched-mode pure sinewave inverters both use Pulse-Width-Modulation at a high frequency then an output filter. The output transistors switch fully on and fully off.

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Yes, but as Craig mentions there is a lot of "it all depends" involved. I used to run a pretty substantial PA off of a solar system w/ a forklift deep cycle battery (about 2000 lbs) and ...

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