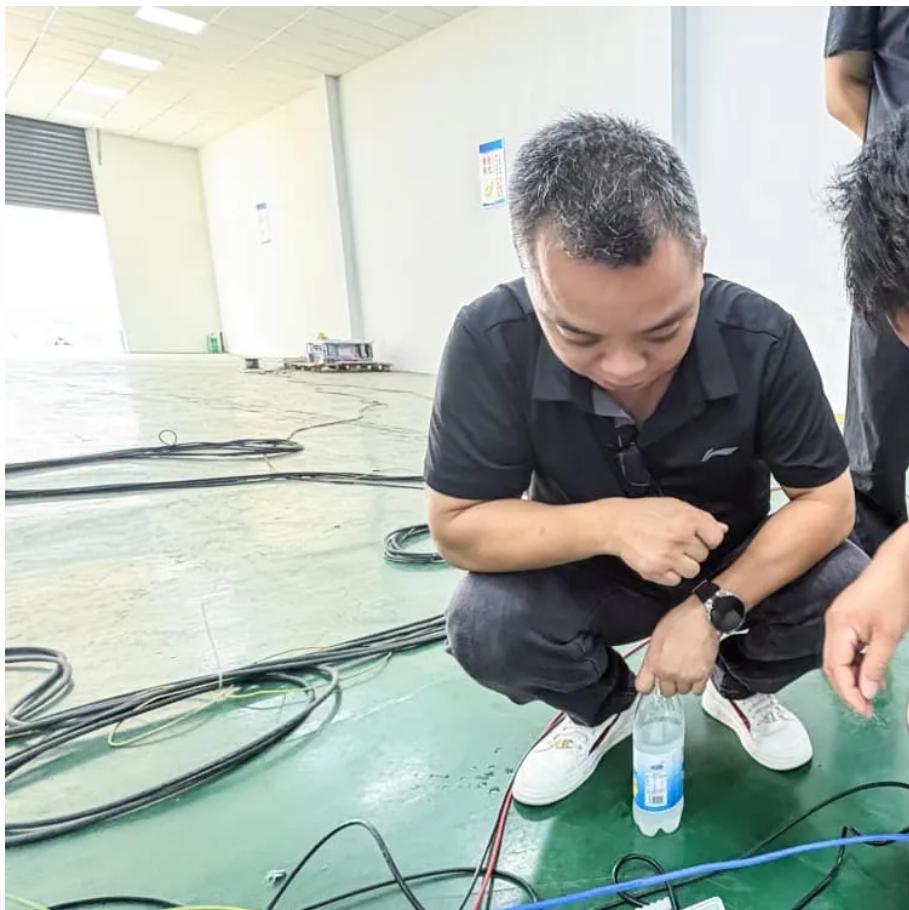




MODERNIZATION SOLAR

Nano amorphous sine wave inverter





Overview

Can a nano replace a sinewave inverter?

The Nano can also replace some additional hardware we haven't even talked about yet. Pure sinewave inverters typically include feedback circuitry to monitor the output voltage and maintain it under varying loads. They also include short circuit protection.

Can an inverter produce a pure sine wave?

In theory, it's pure analog, but inverters in general are switching very high currents. In order to do that switching with transistors, even big power MOSFETs, they need to be either on or off. If they spend a lot of time in transition, which analog implies, the devices overheat and burn up. So a pure sine wave can't be produced directly.

What is a sine wave inverter?

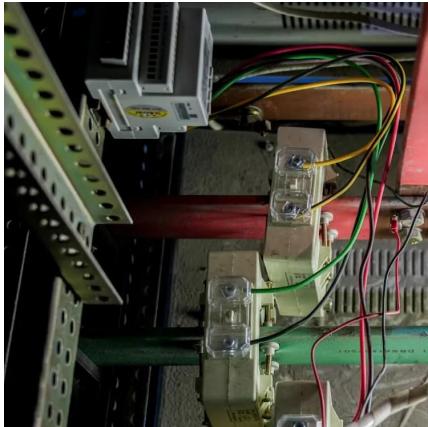
This kind of inverter can be accomplished with a multi-vibrator running at 100 or 120 Hz and a couple of power transistors. It is very straight-forward. Producing a sine wave, however, is much more complicated. In theory, it's pure analog, but inverters in general are switching very high currents.

What is a good transformer for a sinewave inverter?

It's a 110 to 12 volt low power step-down transformer, which worked great for experimenting with pure sinewave generation. But if you actually want to build a serious inverter, you need an inverter transformer, which efficiently operates at high current and high frequency. They are available at places like AliExpress.



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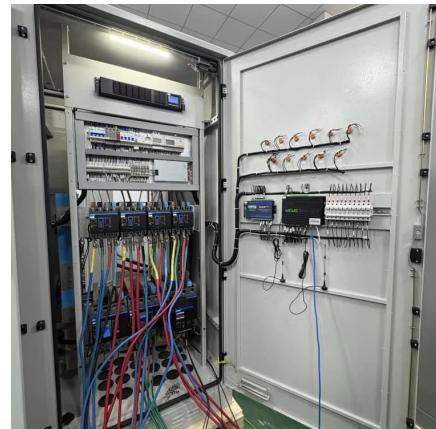


Amorphous Inverter

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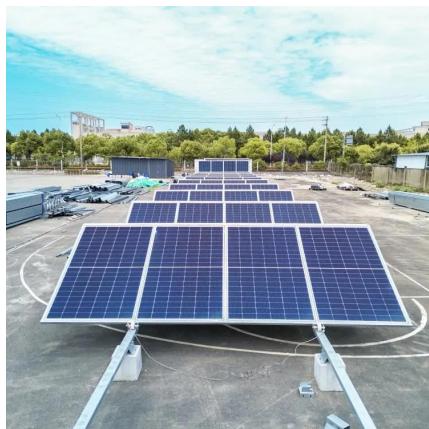
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