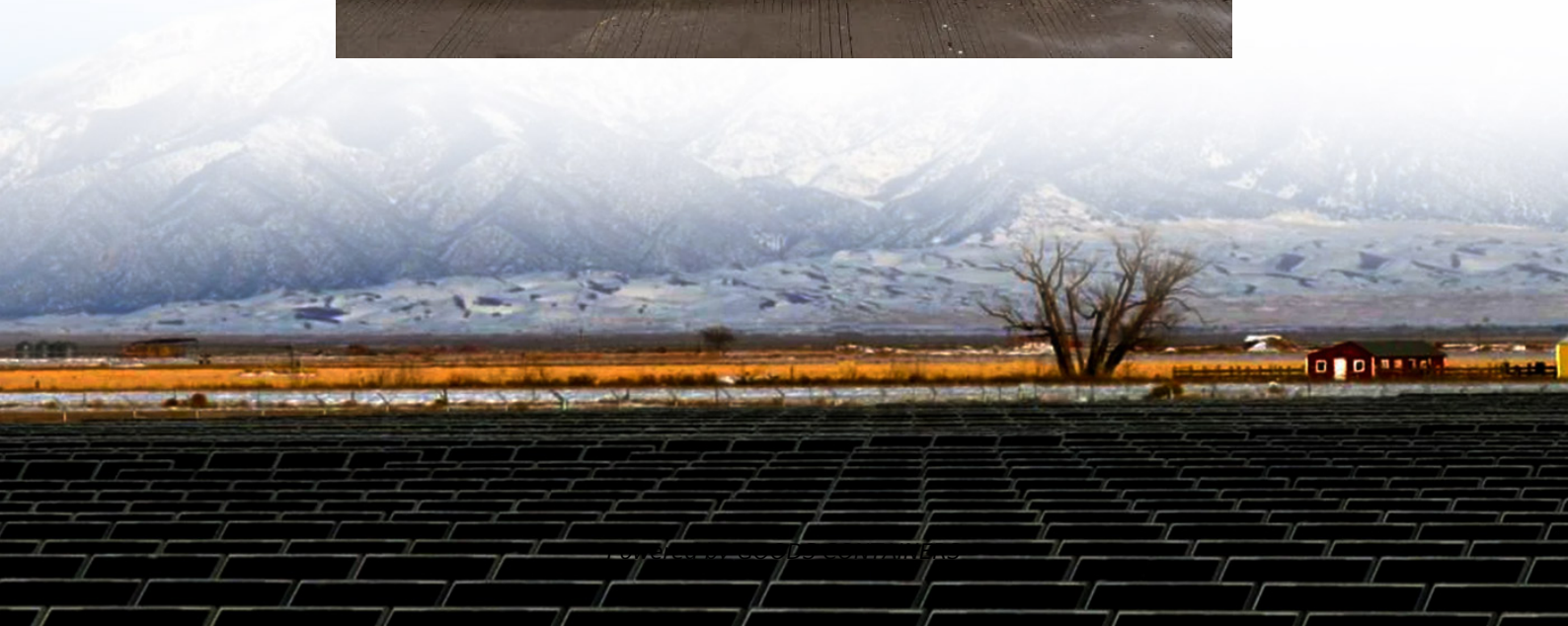


# Increase the inverter output power





## Overview

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How does a power inverter work?

For the record, a power inverter converts  $\sim 12V$  dc  $\rightarrow$   $\sim 120$  AC (normally non-sinusoidal). To increase the power output, the amount of output current the device can source is increased, whereas its output voltage remains the same.

What are inverters used for?

Other than for emergency backup power in homes, inverters are also used in some aircraft systems (to convert a portion of the aircraft DC power into AC), electric motor speed control, refrigeration compressors, power grid-tied solar power systems, induction heating, electric shock devices, etc.

Why do inverters use semiconductors?

Use of semiconductors in inverters helps to boost performance, minimise power losses and optimise thermal management. Inverters find diverse applications due to their DC-to-AC conversion function. Uninterrupted power supply (UPS) systems utilise inverters with a set of batteries to supply backup power when the mains power is not available.

What is a multilevel inverter?

Multilevel inverters synthesise a near sinusoidal voltage from several levels of DC voltages. Minimum harmonic distortion is their main advantage. Most of the pure sine wave inverters have good accuracy and very high load capacity, but these are complex in design and expensive. They power devices with less power loss and less heat generation.



## Increase the inverter output power

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### [Tweaking Your Power Inverter, Get More Bang for the Buck](#)

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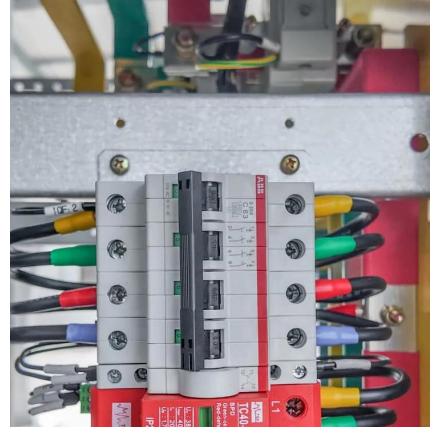
How to Upgrade Low Power to High Power  
Using Power BJTs  
Adding MOSFETs in Parallel  
The above explained ideas for upgrading a low power inverter circuit to a higher power version can be implemented to any desired level, simply by



adding several MOSFETs in parallel. Adding MOSFETs in parallel is actually easier than adding BJT in parallel. It's just about connecting the all the drains, and all the sources together, and then joining See more on homemade-circuits rogerele

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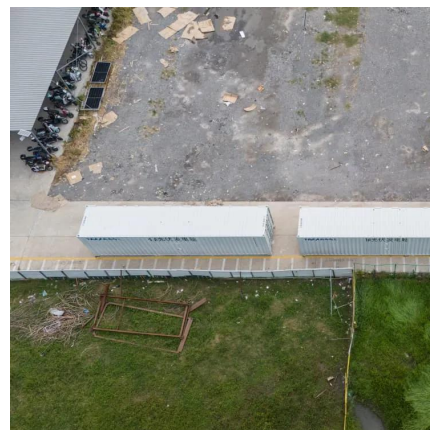


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