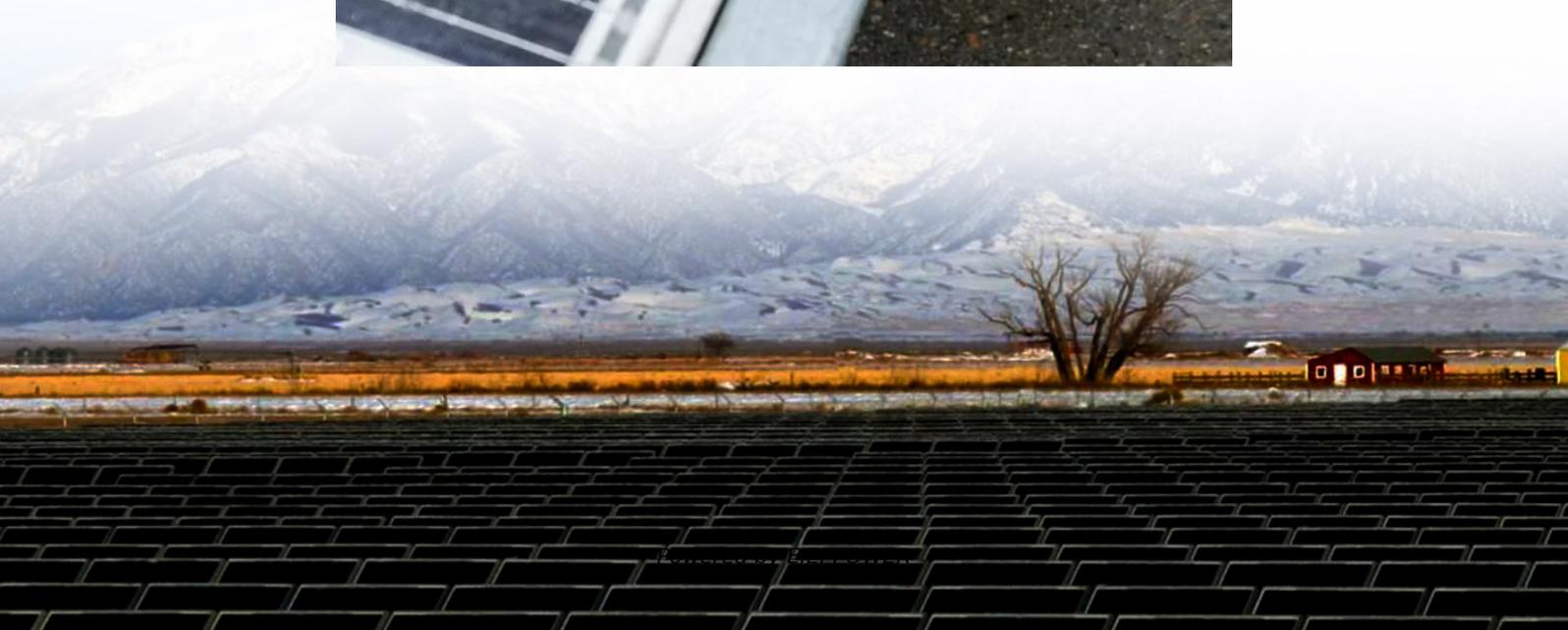
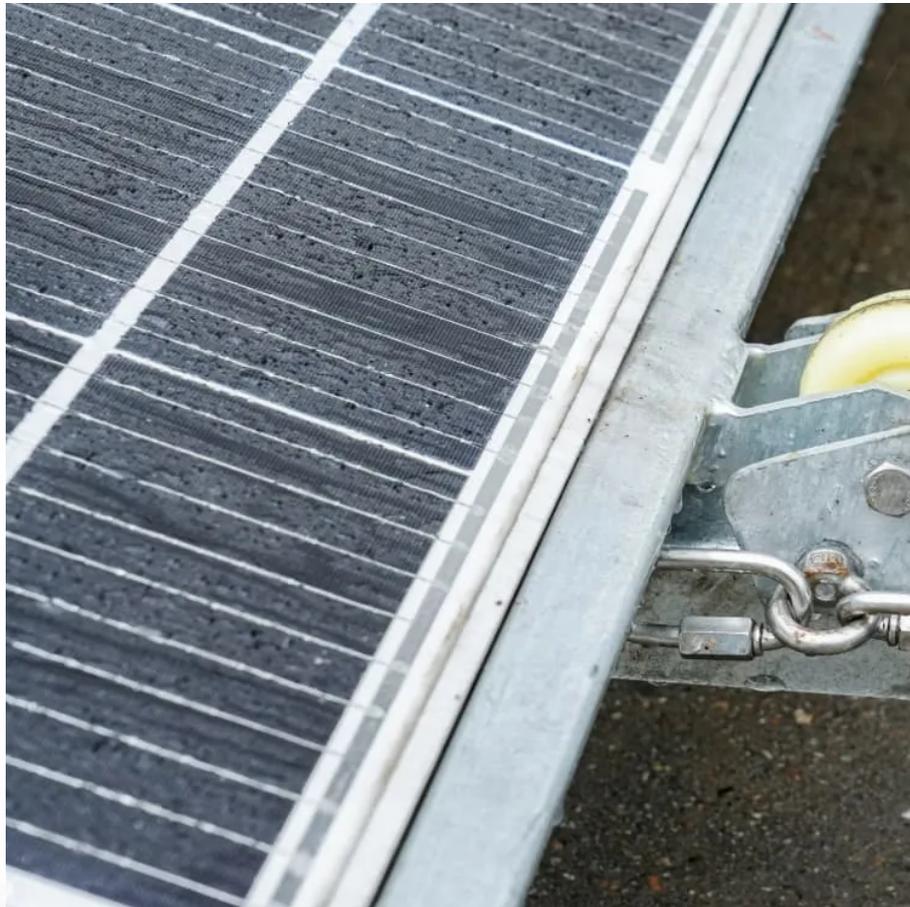


# **48v high frequency inverter production**





## Overview

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Which inverter is best for a 48v battery?

In the 48V case, transistors and drivers that can handle at least 100V on the power nodes are a good choice. In a mild hybrid application, realizing the most efficient use of battery power is one of the keys to meeting miles-per-gallon (mpg) and CO2 emission targets. An efficient inverter starts with transistor selection.

Why does a 48 volt inverter need a larger heat sink?

With a traditional low-voltage 48-V Si-FET inverter, the switching losses at 40-kHz PWM may already be significantly higher than the conduction losses and hence dominate the overall power losses. A larger heat sink is required to dissipate the excess heat; however, this increases system cost, weight, and space.

Why do inverters lose power at 40 kHz?

Alternatively, the inverter losses increase with the switching frequency. With a traditional low-voltage 48-V Si-FET inverter, the switching losses at 40-kHz PWM may already be significantly higher than the conduction losses and hence dominate the overall power losses.

Which inverter frequency should a brushless motor use?

Low-voltage, high-speed drives and low-inductance brushless motors require higher inverter switching frequencies in the range of 40 kHz to 100 kHz to minimize losses and torque ripple in the motor.



## 48v high frequency inverter production

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### PURE SINE WAVE INVERTER,DC POWER SUPPLY

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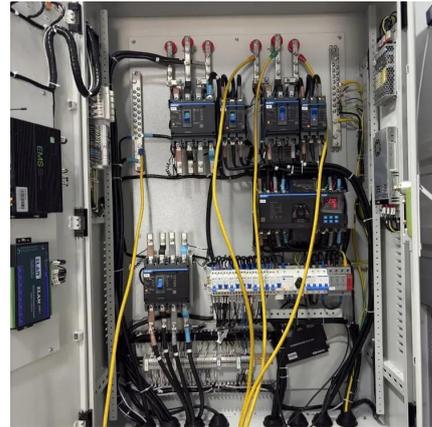
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