

# **Industrial frequency inverter increases output power**





## Overview

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What is a frequency inverter?

The frequency inverter is a power control equipment that applies frequency conversion technology and microelectronics technology to control AC motors by changing the frequency of the motor power supply.

How do frequency inverters save energy?

Energy Saving and Consumption Reduction: Frequency inverters achieve effective control of power consumption by adjusting the motor speed. In the case of lighter loads, lowering the motor speed can reduce energy consumption and improve energy utilization efficiency, thus achieving the purpose of energy saving.

How do frequency inverters affect motor performance?

A frequency inverter's primary function is to manage motor performance by adjusting the electrical supply, but the way it does this can vary depending on the method of control used and the motor's specific demands. Here's a breakdown of how frequency inverters influence motor performance:.

What is frequency control in inverter?

Frequency Control: The frequency of the output AC voltage is determined by the switching frequency of the IGBTs in the inverter stage. For instance, if an electric motor is designed to operate at a synchronous speed of  $n_s$ , where  $n_s$  is the speed,  $f$  is the frequency of the power supply, and  $p$  is the number of poles of the motor.



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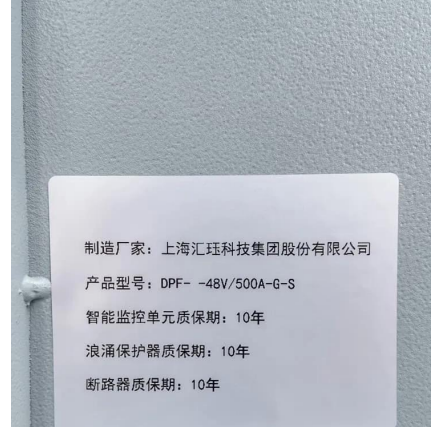
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