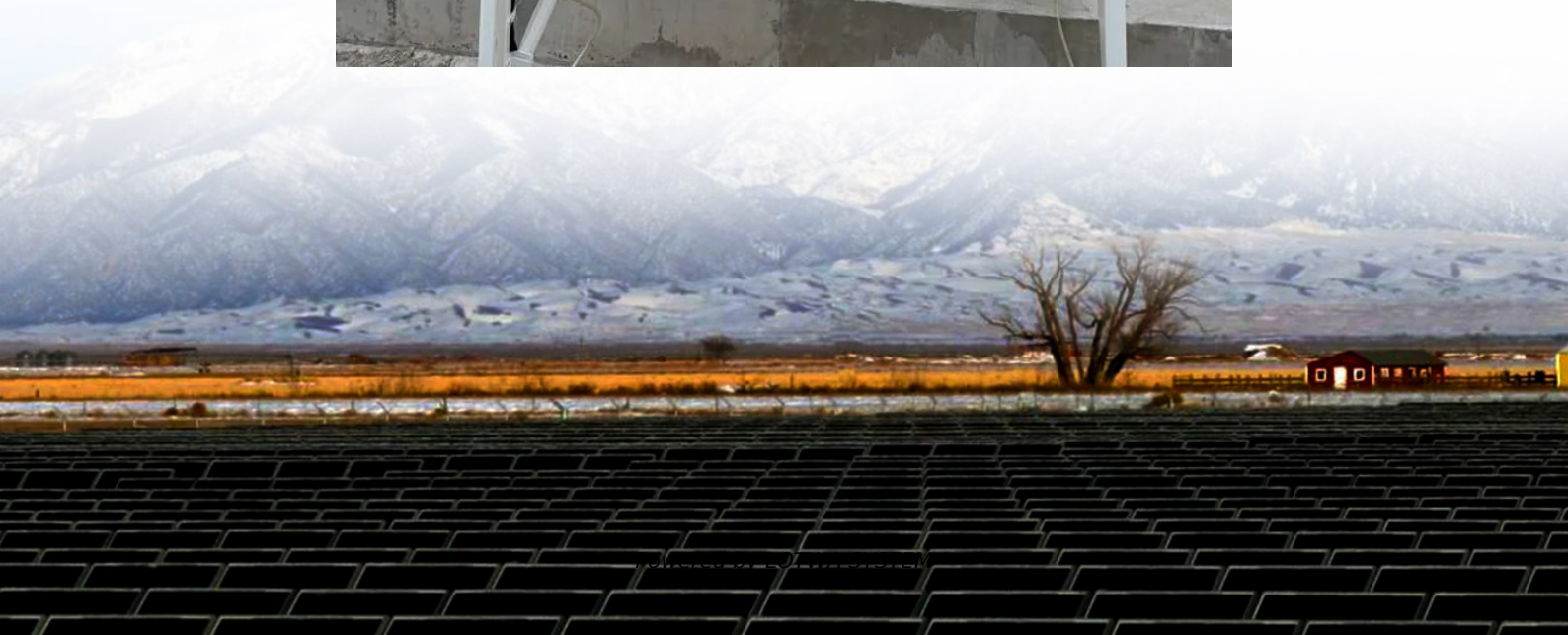


# High frequency inverter adjusts output voltage





## Overview

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What is a high frequency inverter?

In many applications, it is important for an inverter to be lightweight and of a relatively small size. This can be achieved by using a High-Frequency Inverter that involves an isolated DC-DC stage (Voltage Fed Push-Pull/Full Bridge) and the DC-AC section, which provides the AC output.

How a frequency inverter works?

By changing the frequency provided by the frequency inverter, the speed of the motor can be adjusted. If we want to increase the speed of the motor, we increase the output frequency of the inverter. Voltage Control: Along with frequency control, the inverter also adjusts the voltage of the output AC.

How can inverter frequency be adjusted?

External adjustment: Adjusting the input signal of the inverter, such as changing the frequency of the input signal, can adjust the output waveform frequency. Conclusion: In conclusion, understanding inverter frequency is essential for harnessing the full potential of AC power systems across a diverse range of applications.

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,  $f_s$  is the frequency of the power supply, and  $p$  is the number of poles of the motor.



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