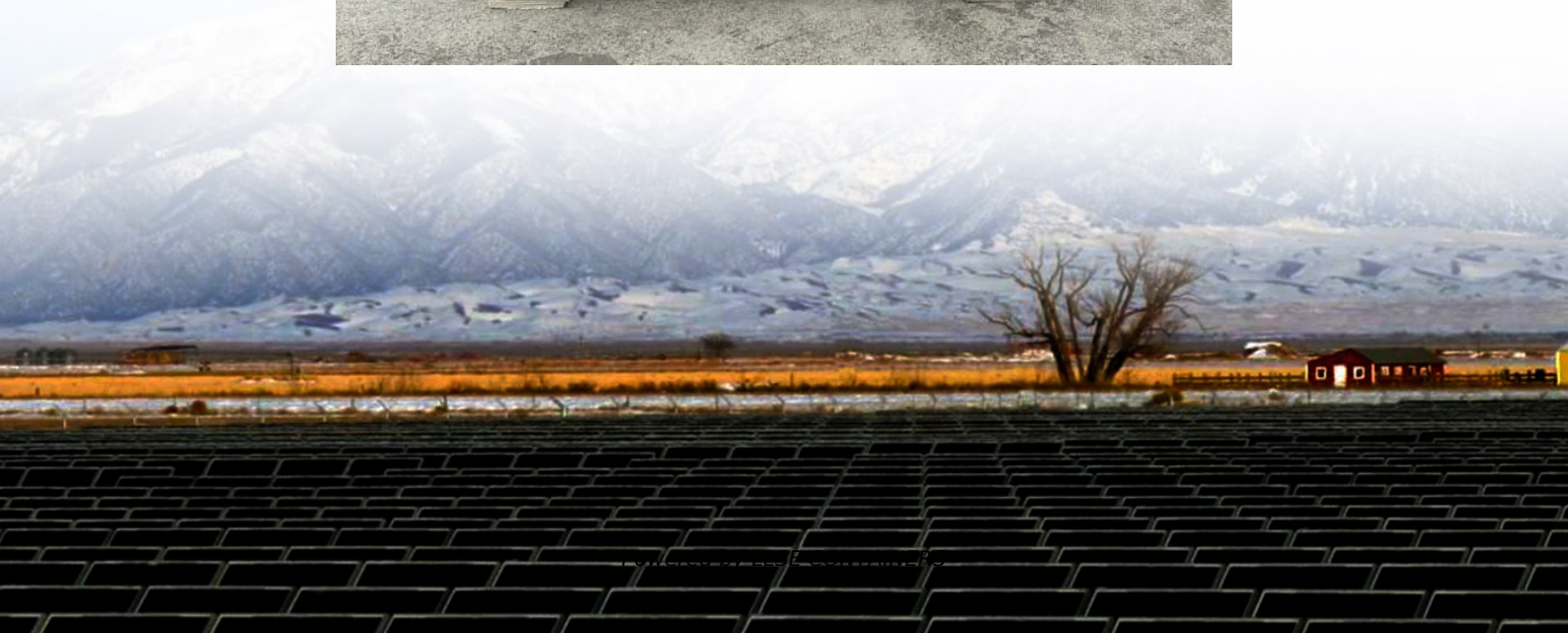


Does the industrial frequency inverter have a wide voltage





Overview

What is the basic design of a frequency inverter?

The basic design of a frequency inverter consists of just electronic components, without any mechanically moving components. Frequency inverters are made up of the following main assemblies: The rectifier converts the AC voltage on the input side into DC voltage.

What is the difference between voltage-driven and current-driven frequency inverters?

Current-driven frequency inverters keep the ratio of current to frequency constant; voltage-driven models stabilise the ratio of voltage to frequency. In Central Europe, the grid frequency is 50 Hz. Frequency inverters first convert the incoming AC voltage into DC voltage and then back into (adjusted) AC voltage.

How does a frequency inverter work?

The inverter circuit converts the smoothed voltage of the intermediate circuit into a three-phase alternating voltage. The system parameters are monitored in the subsequent control circuit. There is a motor at the output of the frequency inverter circuit. A current flows through it, which has been transformed accordingly by the inverter.

Can a frequency inverter be used with a motor?

In Europe, certain motor types (IEC2) may only be operated in conjunction with a frequency inverter for reasons of energy efficiency. Frequency inverters can be integrated into a network or cloud system for seamless monitoring, analysis, or control, depending on the model or enlargement.



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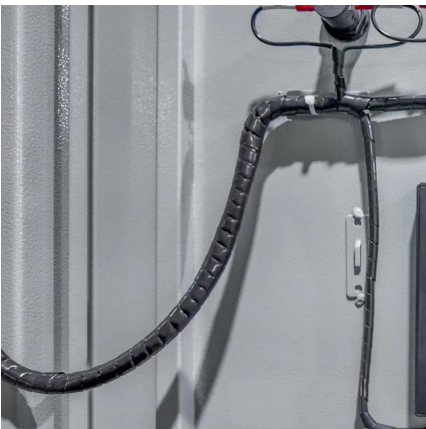


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