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Industrial frequency inverter and high frequency conversion rate





Overview

What is a high frequency inverter?

High frequency inverter: High frequency inverters use high-frequency switching technology to chop DC power at high frequency through high-frequency switching tubes (such as IGBT, MOSFET, etc.), and then convert high-frequency pulses into stable alternating current through high-frequency transformers and filter circuits.

What is a frequency converter & inverter?

Frequency Converter: The main function of a frequency converter is to adjust the frequency of AC power from one value (e.g., 60Hz) to another (e.g., 50Hz). This makes them ideal for controlling motor speeds and operating equipment in regions with different grid standards. **Inverter:** An inverter's primary purpose is to convert DC power into AC power.

What are the advantages of high frequency inverters?

Volume and weight: Since high frequency inverters use high-frequency switching technology and compact circuit design, their size and weight are usually much smaller than power frequency inverters. This gives high frequency inverters significant advantages in mobile power supplies, aerospace, electric vehicles, and other fields.

How does a power frequency inverter work?

Its working principle is to convert DC power into AC power with the same frequency and phase as the power grid through an internal power conversion circuit. Power frequency inverters mostly use traditional components such as transformers and inductors to convert voltage and current.



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