
Inverter high frequency 20hz

What is high frequency power inverter?

The high voltage frequency converter integrate the most advanced motor vector control algorithm, high control precision, fast response, low frequency, high torque. Our high frequency power inverter can be applied to energy-saving speed regulation and process improvement of high-voltage asynchronous motors and synchronous motors.

How does a high frequency inverter work?

High-Frequency Inverter Technology The full bridge (S1...S4) generates a high-frequency square-wave signal with 40 - 50 kHz, which is transmitted via the HF transformer (Tr1). The bridge rectifiers (D1...D4) convert the square-wave signal back to DC voltage and store it in the intermediate circuit (L1+C2).

What are the parts of a high frequency power inverter?

The high frequency power inverter includes two parts, main circuit and control circuit. The main circuit includes an inverter DC power supply, high frequency high voltage transformers, IGBT bridge inverter, protection circuits, high frequency high voltage silicon stack (Rectifier), etc.

Which power supply topologies are suitable for a high frequency inverter?

The power supply topologies suitable for the High-Frequency Inverter includes push-pull, half-bridge and the full-bridge converter as the core operation occurs in both the quadrants, thereby, increasing the power handling capability to twice of that of the converters operating in single quadrant (forward and flyback converter).

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