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Processing high voltage inverter





Overview

How does a high frequency power inverter work?

The high-voltage inverter converts direct current (DC) from the batteries or generator to alternating current (AC) to power the drive motors. The high frequency power inverter includes two parts, main circuit and control circuit.

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.

How does a high-voltage full bridge inverter work?

A high-voltage full bridge inverter works by converting the DC voltage V_1 to a high-frequency square wave AC voltage. This AC voltage is then supplied to a 20kHz frequency high-voltage transformer T_1 , which, after the boost rectifier, provides power to the load. The inverter high-voltage full bridge drives the routing components and the IGBT power modules.

What is the main circuit of an inverter?

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



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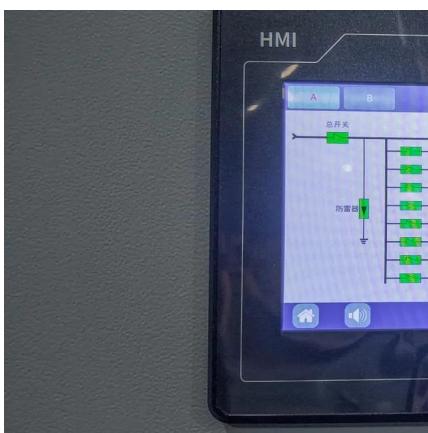
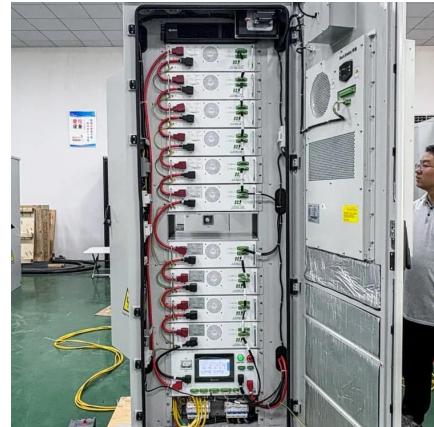
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VF high-voltage sense input voltage is fed back to the control system. Figure 4/High voltage inverter main circuit SCM control system Figure 5 shows the complete block diagram of the high voltage inverter power system, which ...

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What will I get out of this session? Purpose: To provide an overview of complete high voltage power solutions in DC-DC Conversions and Traction Inverters Introduction

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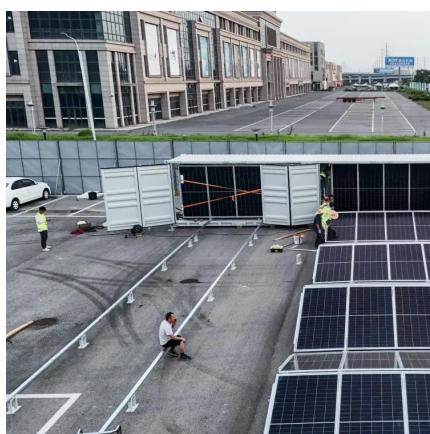
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