

SolarInnovate Energy Solutions

High power IGBT sine wave inverter production



Overview

What is a sine wave high-power IGBT Module Control Board?

Basic Info. Model NO. The sine wave high-power IGBT module control drive board is actually the DC to AC part of the rear stage of the inverter, which converts the high-voltage DC power of the front stage into an AC 220V output device. The dead time of the control board is 2us, which can be adapted to the use of IGBT modules of different sizes.

What is the difference between SiC vs IGBT inverter?

Hybrid switch configuration considered is 1:4 ratio (1 SiC + 3 IGBTs) Efficiency gain of full SiC Inverter and hybrid switch inverters vs IGBT inverter is from low load to medium load, generating advantages in power systems that operate most of the time below 40% load Hybrid switch inverter shows similar efficiency curve compared to SiC.

What is the topology of a full-bridge current-type inverter?

Many different topologies for inverters have come out recently. This design uses a full-bridge topology including four IGBTs as a reference design, which is easy to get started and transplant to the real product. The topology for a full-bridge current-type inverter is shown in Figure 1. Figure 1. Topology of Full-Bridge Current-Type Inverter.

What is a modified square wave inverter?

The Modified Square Wave also known as the Modified Sine Wave Inverter produces square waves with some dead spots between positive and negative half-cycles at the output. The cleanest utility supply like power source is provided by Pure Sine Wave inverters.

What is the function of an inverter?

The main function of the inverter is to convert the DC power to AC power by using the power electronics like the IGBT and MOSFET. Traditionally, many

inverter systems will be implemented by the analog components. As the development of the digital processors, more and more low cost and high performance micro-controllers had got into the market.

How to invert low voltage DC power?

The method, in which the low voltage DC power is inverted, is completed in two steps. The first step is the conversion of the low voltage DC power to a high voltage DC source, and the second step is the conversion of the high DC source to an AC waveform using pulse width modulation.

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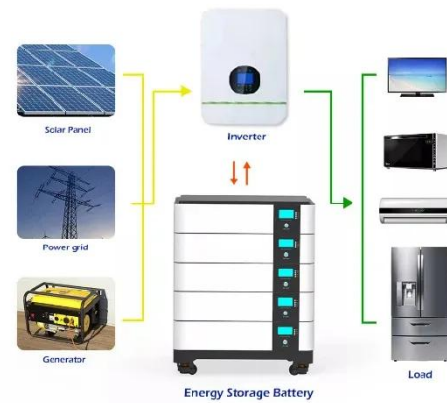


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