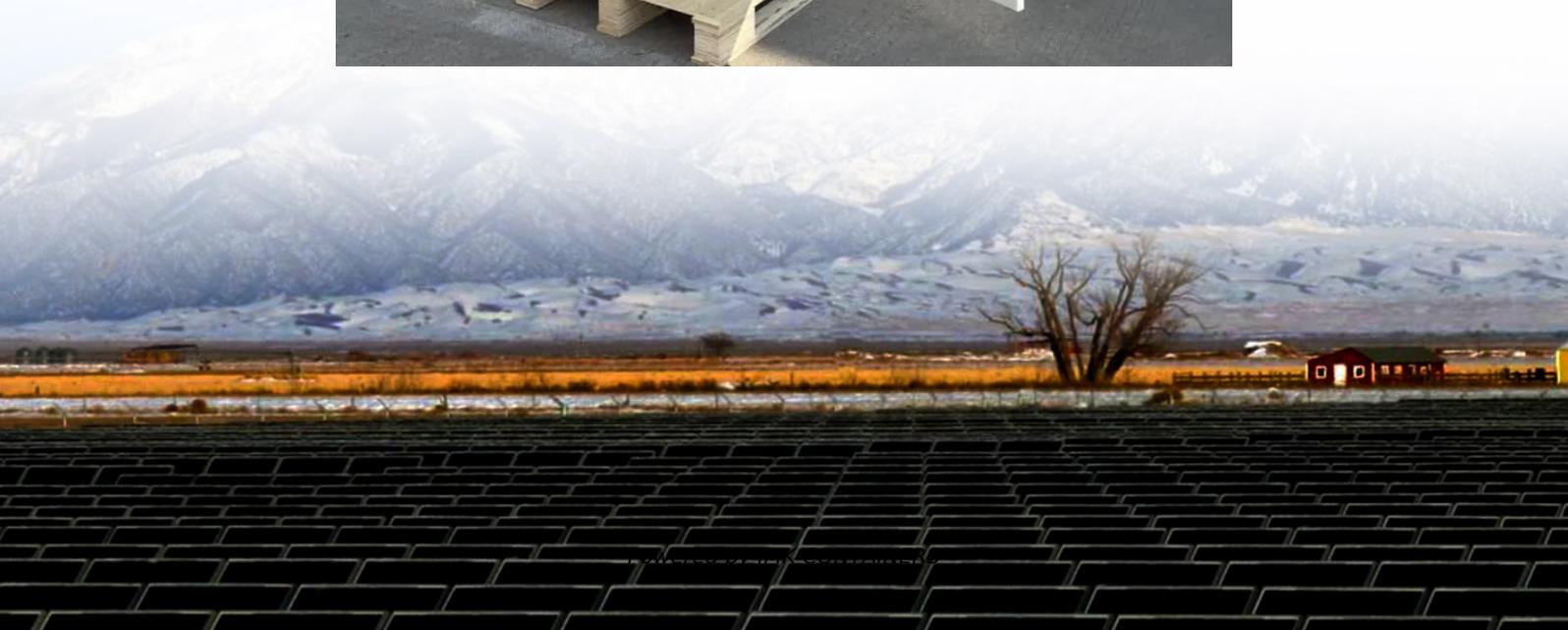


Inverter control power supply voltage





Overview

What is a voltage source inverter?

Voltage source inverters (VSIs) are commonly used in uninterruptible power supplies (UPS) to generate a regulated AC voltage at the output. Control design of such inverter is challenging because of the unknown nature of load that can be connected to the output of the inverter.

How does an inverter control a motor?

An inverter uses this feature to freely control the speed and torque of a motor. This type of control, in which the frequency and voltage are freely set, is called pulse width modulation, or PWM. The inverter first converts the input AC power to DC power and again creates AC power from the converted DC power using PWM control.

How does an inverter work?

The inverter first converts the input AC power to DC power and again creates AC power from the converted DC power using PWM control. The inverter outputs a pulsed voltage, and the pulses are smoothed by the motor coil so that a sine wave current flows to the motor to control the speed and torque of the motor.

What are inverter circuits used for?

This document describes inverter circuits used for motor control and other applications, focusing on PWM control. It also describes the differences between two-phase and three-phase modulation techniques as well as circuits for drive power supply and power losses in semiconductor devices. 1.1.



Inverter control power supply voltage



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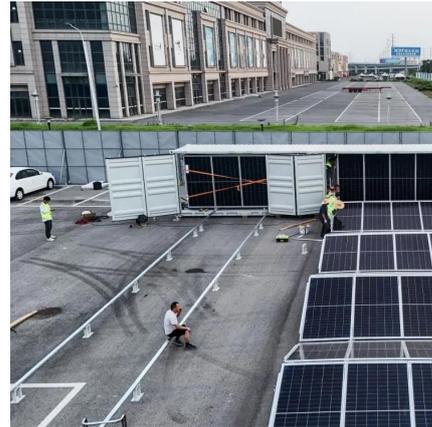


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