



LOTWA SYSTEM

Inverter universal voltage and single 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.

What is a voltage source inverter (VSI)?

An IMPORTANT NOTICE at the end of this TI reference design addresses authorized use, intellectual property matters and other important disclaimers and information. Voltage source inverters (VSIs) are commonly used in uninterruptible power supplies (UPS) to generate a regulated AC voltage at the output.

What is the voltage gain of the proposed inverter?

Also, the voltage gain of the proposed inverter is almost equal to that of the topology of Ref. 1 in high-power applications. The voltage gain comparison between the topologies shown in Refs. 1, 14, 17 and the suggested inverter.

How do I set up a voltage source inverter?

To get started: Confirm that no power source is connected to the design. Confirm that the output filter is correct for the mode that the device will run in. For example, voltage source inverter uses an LC filter. The L2 and L2N slot must be jumper wired as shown in Figure 11.



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CHAPTER 2

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Voltage Source Inverter Reference Design (Rev. E)

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