EXIT-LYON Energy

What is a voltage source inverter

Overview

A VSI usually consists of a DC voltage source, voltage source, a transistorfor switching purposes, and one large DC link capacitor. A DC voltage source can be a battery or a dynamo, or a solar cell, a transistor used maybe an IGBT, BJT, MOSFET, GTO. VSI can be represented in 2 topologies, are. A voltage source inverter can operate in any of 2 conduction mood, i.e, 1. 180 degree and 2. 120degree conduction mood. Let us consider the scenario of 180-degree conduction mode in a three-phase inverter. The three-phase inverter is represented in 180. The following are the waveforms obtained from the above equations 1. The waveform for the A-phase 2. Waveform for VB 3. Waveform of VCN.

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