

Title: Current source inverter reverse voltage

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Using reverse blocking IGCTs in a CSI offers significant benefits compared to present GTO or thyristor solutions and allows higher inverter ratings and switching frequencies.

Some key points: - A CSI converts DC input current to AC output current of adjustable frequency. The output current amplitude is independent of load but output voltage depends on load. - Thyristors are ...

In the last two (5.7-5.8) lessons in this module, the circuit and operation of different types of single-phase and three-phase Current Source Inverters (CSI), with waveforms, will be described in detail.

This article investigates three 3.3 kV reverse blocking or current switch configurations for their suitability in MV current-source inverter (CSI) applications.

A current source inverter is schematically shown in Fig. 1. Each of the positions can be a single switch or a series connection of several switches with small RC snubbers for voltage sharing.

Current source inverter (CSI) needs reverse-voltage blocking (RVB) switches and, historically, during the 1960s and 1970s, thyristors and gate turn-off thyristors were used [2].

As power semiconductor devices in current-source inverters must withstand reverse voltages, standard asymmetric voltage blocking devices such as power BJTs, power MOSFETs, IGBTs, MCTs, IGCTs, ...

Current Source Inverter is a type of inverter circuit that changes the dc current at its input into equivalent ac current. It is abbreviated as CSI and sometimes called a current fed inverter.

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