

Advc controls the inverter power



Overview

What is adaptive DC voltage control (ADVC)?

As one of the control freedoms, the dc voltage has a strong impact to the loss and thermal behaviors of power semiconductor devices. In this letter, the loss and thermal characteristics under the stall condition of the electric machine drive converter are investigated, and an ATC method with Adaptive dc voltage control (ADVC) is proposed.

Does DC voltage affect a power semiconductor device?

In the applications of electric machine drive, ATCs under abnormal conditions, such as overstress in a relatively short timescale, still need further investigations. As one of the control freedoms, the dc voltage has a strong impact to the loss and thermal behaviors of power semiconductor devices.

What is inverter control?

As easily understood, almost all circuits for the Inverter Control function are integrated on a microcontroller chip. Especially, a microcontroller with PWM control IP (Intellectual Property) is one of the best solutions to do Inverter Control. This is the end of the brief explanation of Inverter Control.

Why do we use ADVC?

By using the proposed ADVC, the conduction loss and switching loss of the power devices are redistributed intentionally, so that the total power loss and junction temperature under the stall condition can be minimized.

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Inverter control

The primitive definition of "Inverter Control" is conversion from DC (Direct Current) to AC (Alternate Current). As known well, DC is the current whose voltage has a time ...

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