

SolarInnovate Energy Solutions

Outdoor power supply for reduction motor



Overview

What type of power supply is used in a variable speed drive?

This reference design provides isolated 24 V, 16 V, -16 V, and 6 V outputs to power the control electronics in variable speed drives. The power supply can be either powered directly from 3-phase ac mains or can be powered from dc-link voltage. This design uses quasi-resonant flyback topology and is rated for 50-W output.

Which power supply is used to generate multiple voltage rails?

The main power supply, either powered directly from ac mains or from dc links, is used to generate multiple voltage rails. Multiple voltage rails are required for the operation of all the control electronics in the drive.

Does a 400V rated drive need a lower voltage rating?

For 400-V rated drives, the voltage rating of the MOV needs to be lowered. The capacitance on VDD supplies operating current to the device until the output of the converter reaches the target minimum operating voltage in constant-current regulation.

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