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Outdoor power supply assembly design

Overview

What accessories are available with a medium-voltage power & distribution transformer?

Medium-voltage power and distribution transformers are typically available with several types of accessories, including connections to primary and secondary equipment, temperature controllers and fan packages, integral fuses for transformers with padmount-style enclosures.

Are linear power sup-plies good for digital storage systems?

Typically, linear regulators could achieve output power densities of 0.2 to 0.3 W/in3, and this was not good enough for the ever smaller modern electronic systems. Further, linear power sup-plies could not provide the extended hold-up time required for the controlled shutdown of digital storage systems.

Who is the author of switchmode power supply design?

Mr. Pressman was the author of the first two editions of Switching Power Supply Design. Keith Billings is a Chartered Electronic Engineer and author of the Switchmode Power Supply Handbook, published by McGraw-Hill.

What are the different types of power distribution equipment?

This section concentrates upon commonly used power distribution equipment: Panelboards, Switchboards, Low-Voltage Motor Control Centers, Low-Voltage Switchgear, Medium Voltage Power and Distribution Transformers, Medium-Voltage Metal Enclosed Switchgear, Medium Voltage Motor Control Centers, and Medium-Voltage Metal-Clad switchgear.

How do switching supplies work?

Typically these new switching supplies used a transistor switch to generate a square-waveform from a non-regulated DC input voltage. This square wave, with adjustable duty cycle, was applied to a low pass output power filter so as to provide a regulated DC output.

Why do linear regulators still have a place in modern power supply applications?

This lower RFI noise can be a major advantage in some applications, and for this reason, linear regulators still have a place in modern power supply applications even though the efficiency is quite low. Also since the power losses are mainly due to the DC current and the voltage across Q1, the loss and the overall efficiency are easily calculated.

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