



Outdoor power supply design direction

What makes a good power-supply design? In general, for every power-supply design, trade-offs are made between performance, form factor, and cost. Know which of these factors has the highest priority, because these factors directly impact the quality of the design. Why is switch-mode power-supply design so mysterious? Switch-mode power-supply design can be a mysterious thing because there is a great variety of topologies and controller types from which to choose. This application brief series describes how to pick the most fitting power supply topology for an application and the knowledge needed to get there. What information should be included in a power supply specification? In many cases, this information decreases the number of usable topologies and controllers. The specification should also include requirements for the output-voltage tolerance of the power supply, maximum acceptable output-voltage ripple, average output current, and peak output current. 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. Are linear power supplies 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 supplies could not provide the extended hold-up time required for the controlled shutdown of digital storage systems. 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.

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