

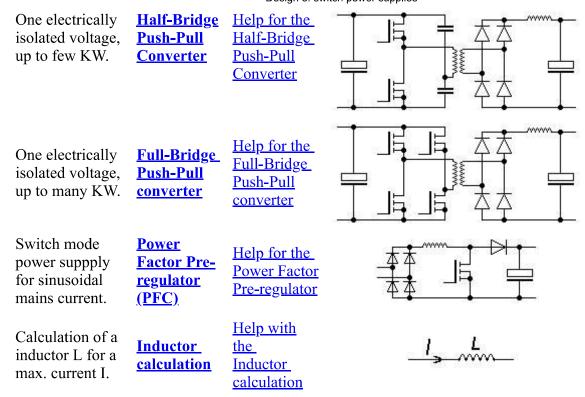
Design of Switch Mode Power Supplies

Switch Mode Power Supplies | Copyrights | What is that everything?

The following programs calculate the relevant currents and voltages for various switch mode power supplies and display these graphically.

Furthermore the programs give suggestions for appropriate choking coils and high frequency transformers.

Description	Type of power supply	Help	
The input voltage is converted into a lower output voltage.	Buck Converter	Help with the Buck/Step- down Converter	
The input voltage is converted into a higher output voltage.	Boost converter	Help for the Boost converter	
The input voltage is converted into a negative voltage.	Buck-Boost converter	Help for the Buck-Boost	
Several isolated output voltages, up to approx. 250 are possible.	Flyback converter	Help for the Flyback converter	
One electrically isolated voltage, up to approx. 100 Watts.	Single Transistor Forward converter	Help for the Single Transistor Forward converter	
One electrically isolated voltage, up to approx. 1 KW.	Two- Transistor Forward converter	Help for the Two- Transistor Forward Converter	



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Note!

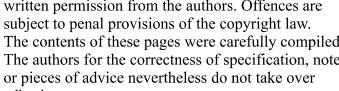


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What is that everything?

Primarily this Website was written for people who know the basics of switchmode power supplies. We did not consider the control of the transistors, as well as certain preventive measures (discharge sets, current limitings).

The suggestions for the ferrite cores are approximations based on the manufacturer tables as well as the books Hirschmann/Hauenstein: Schaltnetzteile [1] and Keith Billings: Switch Mode Power Supply Handbook [2]. Check in any case the specification given by us with the appropriate data sheets.



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