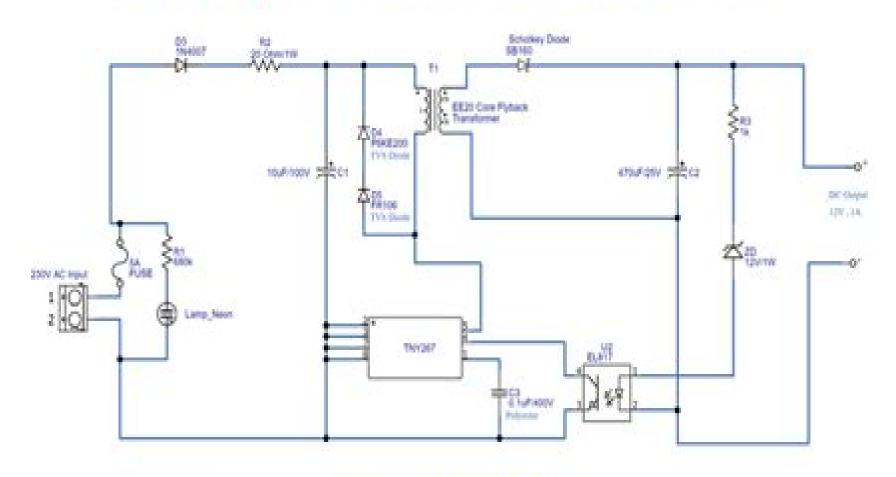
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Designing And Implementation Of Smps Circuits

Zhanyou Sha,Xiaojun Wang,Yanpeng Wang,Hongtao Ma

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Design and Implementation of SMPS Circuit Using PWM Concepts, Switched Mode Power Supply SMPS is the most prevailing architecture for DC power supply in modern systems primarily for its capability to handle variable loads Apart from efficiency the size and weight of the power supplies is becoming a great area of concern for the Power Supply Designers In this thesis an AC to DC converter SMPS circuit having a power MOSFET for switching operation and a PWM based Feedback circuit for driving the switching of the MOSFET is designed and simulated in NI MULTISIM circuit design environment Further the same circuit is Hardware implemented and tested using NI ELVIS Suite In this design the line voltage at 220V 50Hz is taken as input this voltage is stepped down rectified and passed through filter capacitor to give an unregulated DC voltage This unregulated voltage is chopped using a MOSFET switch driven by PWM feedback signal to control the output voltage level An Isolation Transformer is used to isolate the DC output from input supply The transformer output is again rectified by the high frequency Diode bridge rectifier and is filtered using a capacitor to give the regulated DC output A Voltage regulator is connected to give the precise voltage output The feedback network generates a high frequency PWM signal to drive the MOSFET switch The dc voltage at the output depends on the width of the switching pulse The pulse width is varied with the changes in the DC output voltage level this change in the pulse width cancels the output voltage change and the SMPS output remains constant irrespective of load variations **Optimal Design of Switching Power Supply** Zhanyou Sha, Xiaojun Wang, Yanpeng Wang, Hongtao Ma, 2015-09-15 A contemporary evaluation of switching power design methods with real world applications Written by a leading author renowned in his field Focuses on switching power supply design manufacture and debugging Switching power supplies have relevance for contemporary applications including mobile phone chargers laptops and PCs Based on the authors successful Switching Power Optimized Design 2nd Edition in Chinese Highly illustrated with design examples of real world applications *Optimal Design of Switching Power* Supply Zhanyou Sha, Xiaojun Wang, Yanpeng Wang, Hongtao Ma, 2015-06-15 A contemporary evaluation of switching power design methods with real world applications Written by a leading author renowned in his field Focuses on switching power supply design manufacture and debugging Switching power supplies have relevance for contemporary applications including mobile phone chargers laptops and PCs Based on the authors successful Switching Power Optimized Design 2nd Edition in Chinese Highly illustrated with design examples of real world applications Switch-mode Power Supply Design P. R. K. Proceedings Euromicro. Conference, 1998 Chetty, 1986 Intelec ,1984 Simplified Design of Switching Power Supplies John Lenk, 1995 An introduction to switching power supply design for students experimenters and serious hobbyists with no experience in circuit design and a quick reference and book of tricks for veteran technicians and engineers Concentrates on the use of integrated circuit regulators and external components that modify the characteristics of the circuit package The designs shown can be used immediately or adapted for special application Annotation copyright by Book

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