

ATX12V

Power Supply Design Guide

Version 1.3

Revision History

Version	Release Date	Notes
1.0	Feb, 2000	<ul style="list-style-type: none">Public release
1.1	Aug, 2000	<ul style="list-style-type: none">Increase 3.3 V current; add more explanation for power sharing; do minor edits and format fixes.
1.2	Jan, 2002	<ul style="list-style-type: none">Section 3.2.3 Typical Power Distribution. Change +5V loading on all power supplies distribution tables defined in DG to 0.3A.Section 3.3.2 PS_ON# . Add text "The power supply should not latch into a shutdown state when PS_ON# is driven active by pulses between 10ms to 100ms during the decay of the power rails."Section 3.2.3.2: Remove -5V from all power distribution tables.
1.3	April, 2003	<ul style="list-style-type: none">Update Power and Current guidanceAdded efficiency guidance at typical and light loadIncreased min efficiency at full load from 68% to 70%Serial ATA connector definition addedAcoustic levels added for low noise power supply designReformat and update revision tableUpdate DisclaimersRemove guidelines for ATXRemove guidance for -5V rail

Atx12v Power Supply Design Guide

Scott Mueller

Atx12v Power Supply Design Guide:

PC Hardware in a Nutshell Robert Bruce Thompson, Barbara Fritchman Thompson, 2003-07-24 PC Hardware in a Nutshell is the practical guide to buying, building, upgrading, and repairing Intel-based PCs. A longtime favorite among PC users, the third edition of the book now contains useful information for people running either Windows or Linux operating systems. Written for novices and seasoned professionals alike, the book is packed with useful and unbiased information, including how-to advice for specific components, ample reference material, and a comprehensive case study on building a PC. In addition to coverage of the fundamentals and general tips about working on PCs, the book includes chapters focusing on motherboards, processors, memory, floppies, hard drives, optical drives, tape devices, video devices, input devices, audio components, communications, power supplies, and maintenance. Special emphasis is given to upgrading and troubleshooting existing equipment so you can get the most from your existing investments. This new edition is expanded to include detailed information about the latest motherboards and chipsets from AMD, Intel, SiS, and VIA. Extensive coverage of the Pentium 4 and the latest AMD processors, including the Athlon XP MP. Full details about new hard drive standards, including the latest SCSI standards, ATA 133, Serial ATA, and the new 48-bit Big Drive ATA interface. Extended coverage of DVD drives, including DVD RAM, DVD R, RW, and DVD R, RW. Details about Flat Panel Displays, including how to choose one and why you might not want to. New chapters on serial communications, parallel communications, and USB communications, including USB 2.0. Enhanced troubleshooting coverage. PC Hardware in a Nutshell, 3rd Edition provides independent, useful, and practical information in a no-nonsense manner, with specific recommendations on components. Based on real-world testing over time, it will help you make intelligent, informed decisions about buying, building, upgrading, and repairing PCs in a cost-effective manner that will help you maximize new or existing computer hardware systems. It's loaded with real-world advice presented in a concise style that clearly delivers just the information you want without your having to hunt for it.

Complete Computer Hardware

Only, Upgrading and Repairing PCs Scott Mueller, 2003 This is the newest comprehensive update to the world's 1 guide to PC repair and maintenance. World-renowned PC hardware expert Scott Mueller has thoroughly updated his legendary Upgrading and Repairing PCs to reflect today's latest PC technologies and added a new DVD with more than two hours of digital video demonstrating PC maintenance and repair, which can be watched on either their DVD-equipped PCs or any DVD player. Mueller presents updated coverage of every significant PC component: processors, motherboards, memory, the BIOS, IDE and SCSI interfaces, drives, removable and optical storage, video and audio hardware, USB, FireWire, Internet connectivity, LANs, power supplies, even PC cases. This book also contains a detailed troubleshooting index designed to help readers rapidly diagnose more than 250 common PC hardware problems, as well as an extensive vendor contact guide and a comprehensive PC technical glossary.

Handbook of Energy-Aware and Green Computing - Two Volume Set Ishfaq Ahmad, Sanjay Ranka, 2016-02-03 Implementing energy-efficient CPUs and peripherals as well as reducing resource

consumption have become emerging trends in computing As computers increase in speed and power their energy issues become more and more prevalent The need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront *Proceedings of the ... IEEE International Symposium on Electronics and the Environment* ,2005 **Build it Yourself VISUALLY** Kate J. Chase,2005-12-19 In order to acquire an ideal combination of speed memory and graphic quality an off the shelf PC can easily cost 2 000 this book shows PC users how to build a dream machine without breaking the bank This book tells readers how to plan their media center PCs develop a parts shopping list and acquire components at bargain prices Readers will start with a computer case then learn how to select purchase and install the motherboard CPU memory graphics card audio and network hardware and hard drive eventually learning how to select and install peripheral hardware such as monitors keyboards and mice Numbered full color photos clearly walk readers through the PC building process while supporting text and sidebars tell the reader why and offer additional information

Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Lab Manual, Fourth Edition (Exams 220-801 & 220-802) Michael Meyers,2012-08-01 Bestselling CompTIA A author Mike Meyers provides 130 hands on step by step labs updated for the 2012 exams so you can practice the IT skills essential for your success With coverage of CompTIA A certification exams 220 801 and 220 802 Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Lab Manual Fourth Edition contains more than 130 labs that challenge you to solve real world problems with key concepts Clear measurable lab objectives map to certification exam objectives ensuring direct correspondence to Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Fourth Edition Lab solutions are only available to instructors and are not printed inside the book The Lab Manual also includes materials lists and lab set up instructions Step by step not click by click lab scenarios require you to think critically and Hint and Warning icons guide you through potentially tricky situations Post lab observation questions measure your understanding of lab results and the key term quiz helps to build your vocabulary *CompTIA A+ Certification Study Guide 7/E Exam 220-701&702 (ENHANCED EBOOK)* Jane Holcombe,Charles Holcombe,2011-01-20 Work through key exercises for the latest release of the CompTIA A certification exam with help from 12 certcam videos Reviewed and authorized by CompTIA s CAQC program this is the most exam focused CompTIA A certification training and self assessment study system available for the new CompTIA A exams The book features step by step exercises chapter self tests and in depth explanations It includes four complete practice exams a full color photographic insert lab questions and a free segment of LearnKey s A video training Plus this enhanced e book offers 12 certcam videos showing exactly how to do key exercises within the book *PC Magazine* ,2007 *CompTIA A+ Certification Study Guide, Tenth Edition (Exams 220-1001 & 220-1002)* Faithe Wempen,Jane Holcombe,2019-04-26 A highly effective study system for the CompTIA A exams fully updated for the 2019 versions of the examsWith hundreds of accurate practice questions and hands on exercises CompTIA A Certification Study Guide Tenth Edition Exams 220 1001 configuring operating systems

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[Simplified Design of Switching Power Supplies](#) John Lenk,1995 Concentrating on the use of IC regulators this book considers all popular forms of switching supplies including DC DC converters inverters buck boost buck boost pulse frequency modulation pulse width modulation current mode control and pulse skipping **Practical Switching Power Supply Design** Martin C. Brown,2012-12-02 Take the black magic out of switching power supplies with Practical Switching Power Supply Design This is a comprehensive hands on guide to the theory behind and design of PWM and resonant switching supplies You ll find information on switching supply operation and selecting an appropriate topology for your application There s extensive coverage of buck boost flyback push pull half bridge and full bridge regulator circuits Special attention is given to semiconductors used in switching supplies RFI EMI reduction grounding testing and safety standards are also detailed Numerous design examples and equations are given and discussed Even if your primary expertise is in logic or microprocessor engineering you ll be able to design a power supply that s right for your application with this essential guide and reference Gives special attention to resonant switching power supplies a state of the art trend in switching power supply design Approaches switching power supplies in an organized way beginning with the advantages of switching supplies and thier basic operating principles Explores various configurations of pulse width modulated PWM switching supplies and gives readers ideas for the direction of their designs Especially useful for practicing design engineers whose primary specialty is not in analog or power engineering fields

[Switching Power Supply Design, 3rd Ed.](#) Abraham I. Pressman,Keith Billings,Taylor Morey,2007-08-21 The World s 1 Guide to Power Supply Design_Now Updated Recognized worldwide as the definitive guide to power supply design for over

25 years Switching Power Supply Design has been updated to cover the latest innovations in technology materials and components This Third Edition presents basic principles of all the commonly used topologies providing you with the essential information required to design cutting edge power supplies Using a tutorial how to approach this expert resource is filled with design examples equations and charts The Third Edition of Switching Power Supply Design features Designs for all the most useful switching power supply topologies The basic principles required to solve day to day design problems A strong focus on magnetics design New to this edition a full chapter on choke design and quasi resonant switching methods Get Everything You Need to Design a Complete Switching Power Supply Fundamental Switching Regulators Push Pull and Forward Converter Topologies Half and Full Bridge Converter Topologies Flyback Converter Topologies Current Mode and Current Fed Topologies Miscellaneous Topologies Transformer and Magnetics Design High Frequency Choke Design Bipolar Power Transistor Base Drives MOSFET Power Transistors and Input Drive Circuits Magnetic Amplifier Postregulators Turn on Turn off Switching Losses and Snubbers Feedback Loop Stabilization Resonant Converters Waveforms Power Factor Power Factor Correction High Frequency Power Sources for Fluorescent Lamps Low Input Voltage Regulators for Laptop Computers and Portable Electronics Phase Shifted Zero Voltage Transition Full Bridge Converter

Switching Power Supply Design Abraham I. Pressman, 1998 Mathematically sufficient without being unnecessarily academic this practical book's tutorial how to approach shows how even a novice can immediately design a complete switching power supply circuit

Switchmode Power Supply Handbook Keith Billings, 1999 Unarguably the leading hands on guide in this rapidly expanding area of electronics Keith Billings new revision of his Switchmode Power Supply Handbook brings state of the art techniques and developments to engineers at all levels Offering sound working knowledge of the latest in topologies and clear step by step approaches to component decisions this Handbook gives power supply designers practical solutions oriented design guidance free of unnecessarily complicated mathematical derivations and theory This thoroughly updated Handbook features many new fully worked examples as well as numerous nomograms everything you need to design today's smaller faster and cooler systems Turn to just about any page and you'll find cutting edge design expertise on electronic ballast power factor correction new thermal management techniques transformers chokes input filters EMI control converters snubber circuits auxiliary systems and much more The most comprehensive book on power supply design available anywhere Switchmode Power Supply Handbook is the industry standard now fully updated for the 21st century

Switchmode Power Supply Handbook Keith H. Billings, 2011 The definitive guide to switchmode power supply design fully updated covering the latest developments and techniques Switchmode Power Supply Handbook third edition is a thorough revision of the industry leading resource for power supply designers New design methods required for powering small high performance electronic devices are presented Based on the authors decades of experience the book is filled with real world solutions and many nomograms and features simplified theory and mathematical analysis This comprehensive volume

explains common requirements for direct operation from the AC line supply and discusses design theory and practice Engineering requirements of switchmode systems and recommendations for active power factor correction are included This practical guide provides you with a working knowledge of the latest topologies along with step by step approaches to component decisions to achieve reliable and cost effective power supply designs Switchmode Power Supply Handbook third edition covers Functional requirements of direct off line switchmode power supplies Power components selection and transformer designs for converter circuits Transformer choke and thermal design Input filters RFI control snubber circuits and auxiliary systems Active power factor correction system design Worked examples of would components Examples of fully resonant and quasi resonant systems A resonant inverter fluorescent ballast An example of high power phase shift modulated system A new MOSFET resonant inverter drive scheme A single control wide range wave oscillator

Power Supply

Design: Control Raymond B. Ridley,2011 *Simplified Design of Linear Power Supplies* John D. Lenk,1994 No previous design experience is required to use the techniques described All popular forms of linear supplies are covered in detail including zener 3 terminal feedback current foldback op amp series shunt and IC package Extensive use of headings and subheadings helps the reader seeking information on specific types of supplies Simplified Design of Linear Power Supplies is an all inclusive one stop guide to linear power supply design using step by step instructions and diagrams The first half of the book describes how linear power supplies operate and explains what is required to design such supplies The second half provides specific design examples using the techniques described in the first half The basic approach is to start design problems with approximations for trial value components in experimental circuits then to vary the component values until the desired results input output voltage and current line and load regulation ripple rejection noise etc are produced The design examples can be put to immediate use as is or can be modified as required to meet a specific design goal by following the instructions **Switch-mode Power Supply Design** P. R. K. Chetty,1986

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