

TI Designs 12-W Ultra-Wide Input Range Power Supply



TI Designs

TI Designs provide the foundation that you need including methodology, testing and design files to quickly evaluate and customize the system. TI Designs help you accelerate your time to market.

Design Resources

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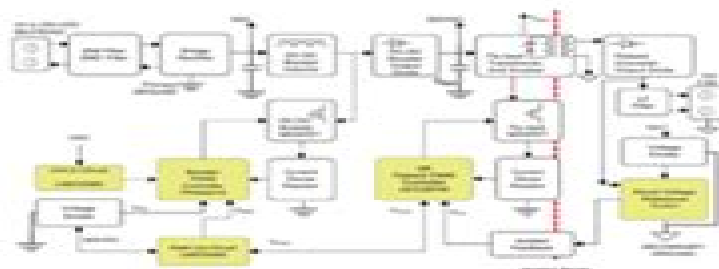
Design Features

The 12-W Ultra-Wide Input Range Power Supply is a reference design that is primarily targeted for protection relays. This design is a single-board solution that handles an ultra-wide range of AC or DC inputs.

- Supply Voltage Range
 - 24-V to 250-V DC or 88-V to 276-V AC
- Output Voltage at Nominal Supply Voltage
 - 15 V, 0.8 A
 - Total Output Power 12 W
 - Line Regulation < $\pm 3\%$
 - 21-V to 250-V DC and 80-V to 276-V AC
 - Load Regulation < $\pm 3\%$
 - (10 to 100%)
 - Form Factor
 - PCB Dimension 100 × 100 mm
- Meets Pre-Compliance Test Requirements
 - IEC61000-4 for EFT and Surge
 - EN55011 Class A Conducted Emission
 - IEC61000-4-11 (AC) and IEC61000-4-29 (DC) for Voltage Dips and Interruptions with Reduced Bulk Capacitor

Featured Applications

- Protection Relay: Single Function and Multifunction
- Substation IED and Automation Products
- Power Managers



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12 W Ultra Wide Input Range Power Supply

Qingxin Yang, Xuzhu Dong, Weiming Ma

12 W Ultra Wide Input Range Power Supply:

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

The proceedings of the 10th Frontier Academic Forum of Electrical Engineering (FAFEE2022) Qingxin Yang, Xuzhu Dong, Weiming Ma, 2023-08-13 This book includes the original peer reviewed research papers from the 10th Frontier Academic Forum of Electrical Engineering FAFEE 2022 held in Xi an China in August 2022 It gathers the latest research innovations and applications in the fields of Electrical Engineering The topics it covers include electrical materials and equipment electrical energy storage and device power electronics and drives new energy electric power system equipment IntelliSense and intelligent equipment biological electromagnetism and its applications and insulation and discharge computation for power equipment Given its scope the book benefits all researchers engineers and graduate students who want to learn about cutting edge advances in Electrical Engineering

Network Security and Communication Engineering Kennis Chan, 2015-07-06 The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progresss between scholars scientists and engineers all over the world and providing a unique opportunity to exchange information to present the latest results as well as to review the relevant issues on

Analog Circuit Design Volume Three Bob Dobkin, John Hamburger, 2014-11-29 Design Note Collection the third book in the Analog Circuit Design series is a comprehensive volume of applied circuit design solutions providing elegant and practical design techniques Design Notes in this volume are focused circuit explanations easily applied in your own designs This book includes an extensive power management section covering switching regulator design linear regulator design microprocessor power design battery management powering LED lighting automotive and industrial power design Other sections span a range of analog design topics including data conversion data acquisition communications interface design operational amplifier design techniques filter design and wireless RF communications and network design Whatever your application industrial medical security embedded systems instrumentation automotive communications infrastructure satellite and radar computers or networking this book will provide practical design techniques developed by experts for tackling the challenges of power management data conversion signal conditioning and wireless RF analog circuit design A rich collection of applied analog circuit design solutions for use in your own designs Each Design Note is presented in a concise two page format making it easy to read and assimilate Contributions from the leading lights in analog design including Bob Dobkin Jim Williams George Erdi and Carl Nelson among others Extensive sections covering power

management data conversion signal conditioning and wireless RF **Electronic Design** ,1989 *The Directory of Video, Multimedia & Audio-visual Products* ,1999 Thomas Register of American Manufacturers and Thomas Register Catalog File ,1996 Vols for 1970 71 includes manufacturers catalogs *Wireless World* ,1929 Digital Design ,1984

Electronics ,1984 June issues 1941 44 and Nov issue 1945 include a buyers guide section **Electrical Trading and Radio Marketing** ,1961 **2003 IEEE Conference on Electron Devices and Solid-State Circuits** ,2003 The proceedings from the 2003 IEEE Conference on Electron Devices and Solid State Circuits **Radio & Television News** ,1955 Some issues Aug 1948 1954 are called Radio electronic engineering edition and include a separately numbered and paged section Radio electronic engineering issued separately Aug 1954 May 1955 Electronic Products Magazine ,1992

Hi Fi/stereo Review ,1988 Stereo Review ,1970 **The Absolute Sound** ,1989 Western Aerospace ,1959

Electrical & Electronics Abstracts ,1988 **Electronics Industry** ,1985-02

Unveiling the Magic of Words: A Review of "**12 W Ultra Wide Input Range Power Supply**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**12 W Ultra Wide Input Range Power Supply**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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Table of Contents 12 W Ultra Wide Input Range Power Supply

1. Understanding the eBook 12 W Ultra Wide Input Range Power Supply
 - The Rise of Digital Reading 12 W Ultra Wide Input Range Power Supply
 - Advantages of eBooks Over Traditional Books
2. Identifying 12 W Ultra Wide Input Range Power Supply
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 12 W Ultra Wide Input Range Power Supply
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12 W Ultra Wide Input Range Power Supply
 - Personalized Recommendations
 - 12 W Ultra Wide Input Range Power Supply User Reviews and Ratings

- 12 W Ultra Wide Input Range Power Supply and Bestseller Lists
- 5. Accessing 12 W Ultra Wide Input Range Power Supply Free and Paid eBooks
 - 12 W Ultra Wide Input Range Power Supply Public Domain eBooks
 - 12 W Ultra Wide Input Range Power Supply eBook Subscription Services
 - 12 W Ultra Wide Input Range Power Supply Budget-Friendly Options
- 6. Navigating 12 W Ultra Wide Input Range Power Supply eBook Formats
 - ePub, PDF, MOBI, and More
 - 12 W Ultra Wide Input Range Power Supply Compatibility with Devices
 - 12 W Ultra Wide Input Range Power Supply Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 12 W Ultra Wide Input Range Power Supply
 - Highlighting and Note-Taking 12 W Ultra Wide Input Range Power Supply
 - Interactive Elements 12 W Ultra Wide Input Range Power Supply
- 8. Staying Engaged with 12 W Ultra Wide Input Range Power Supply
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 12 W Ultra Wide Input Range Power Supply
- 9. Balancing eBooks and Physical Books 12 W Ultra Wide Input Range Power Supply
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 12 W Ultra Wide Input Range Power Supply
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 12 W Ultra Wide Input Range Power Supply
 - Setting Reading Goals 12 W Ultra Wide Input Range Power Supply
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 12 W Ultra Wide Input Range Power Supply
 - Fact-Checking eBook Content of 12 W Ultra Wide Input Range Power Supply
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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