

EXPERIMENT 1

Aim: Introduction to Power supply & Multimeter.

Theory:

DC Power Supply:

It is easy to use, low power, multi output general purpose laboratory supply (Figure 1.1). It is suitable for experimental set-ups, circuit development and low voltage applications. The power supply delivers three dc outputs:

- 0-32V dc output, continuously variable, with 2 Amps capacity. This section is provided with panel meters to monitor output voltage and current separately.
- 5V preset dc output with 5Amps capacity. A built-in over voltage protection circuit offers protection to the loads against over voltage.
- ± 15 V preset dc output with 500mA capacity.

All the outputs are floating (i.e. neither any of + ve or - ve output terminals nor any point within the regulator circuitry is connected to ground). The power supply is designed to operate satisfactorily in ambient temperature of up to 50°C and full power can be drawn if free air circulation is allowed. The unit works on main supply of 230V ac at 50 Hz.



Figure 1.1: Power Supply

Regulated Power Supply – Working, Circuit Diagram and Applications

We know that there are different types of electrical & electronic circuits which use a DC power supply. Universally, we cannot use the DC batteries due to expensive as well as require replacement when discharged. In this situation, we require a circuit which can change AC supply to DC supply. A rectifier filter circuit includes a normal DC power supply. The normal DC power supply o/p remains stable if the load is constant. Although in several electronic circuits it is extremely significant to maintain the DC power supply constant irrespective of alternative AC supply. Otherwise, the circuit will get damage. To overcome this problem, voltage regulating devices can be used. So, the blend of the voltage regulating devices by the normal dc power supply is named as DC regulated power supply. This is an electrical device, used to generate the steady DC supply irrespective of alternative AC supply.

Ec 1 Lab Manuals

AW Rasmussen



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Table of Contents Ec 1 Lab Manuals

1. Understanding the eBook Ec 1 Lab Manuals
 - The Rise of Digital Reading Ec 1 Lab Manuals
 - Advantages of eBooks Over Traditional Books
2. Identifying Ec 1 Lab Manuals
 - 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 Ec 1 Lab Manuals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ec 1 Lab Manuals
 - Personalized Recommendations
 - Ec 1 Lab Manuals User Reviews and Ratings
 - Ec 1 Lab Manuals and Bestseller Lists
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 - Ec 1 Lab Manuals Budget-Friendly Options
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 - Ec 1 Lab Manuals Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ec 1 Lab Manuals
 - Highlighting and Note-Taking Ec 1 Lab Manuals
 - Interactive Elements Ec 1 Lab Manuals
 8. Staying Engaged with Ec 1 Lab Manuals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ec 1 Lab Manuals
 9. Balancing eBooks and Physical Books Ec 1 Lab Manuals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ec 1 Lab Manuals
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ec 1 Lab Manuals
 - Setting Reading Goals Ec 1 Lab Manuals
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ec 1 Lab Manuals
 - Fact-Checking eBook Content of Ec 1 Lab Manuals
 - 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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