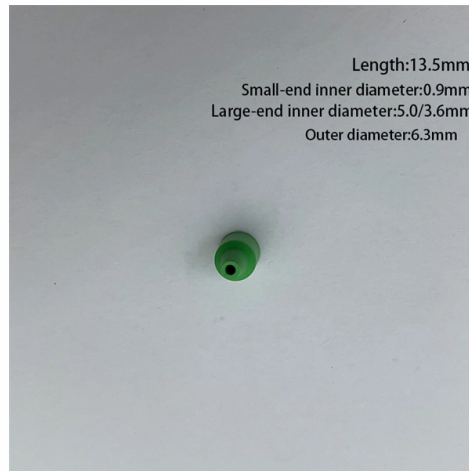


AC to DC power supply desktop retail



Overview

Explore our AC to DC desktop power supply options for electronic applications that require DC power at Jameco Electronics.

Key Takeaways

Desktop AC to DC power supplies convert standard AC mains power into stable DC output, ideal for electronics projects, lab testing, and device charging.

AC to DC desktop power supplies are essential for powering devices that require direct current, such as radios, LED systems, battery chargers, and lab equipment. They are widely used by hobbyists, technicians, and professionals for testing, development, and DIY electronics projects. These units provide adjustable or fixed voltage outputs, current regulation, and safety features like overload and short-circuit protection .

Key Features to Consider

- Voltage Output: Common ranges include 5V, 12V, 24V, 48V, and adjustable models from 3V to 60V .
- Current Capacity: Desktop units can supply from a few hundred milliamps up to 30A or more, depending on the application .
- Power Rating: Typical wattage ranges from 40W to 150W for compact desktop units, with high-power models exceeding 500W for lab or industrial use .
- Connector Types: Barrel jacks, USB, Micro-USB, USB-C, and DIN connectors are common. Some models offer multiple outputs for simultaneous device powering .

- **Adjustability:** Many desktop supplies allow fine-tuning of voltage and current, which is crucial for sensitive electronics testing .

- **Safety Certifications:** Look for UL, CE, RoHS, and medical-grade approvals for reliable and safe operation .

Popular Retail Options

- **Amazon:** Offers a wide range of AC to DC converters, including adjustable 3V–24V units, high-current 12V 50A supplies, and bench power supplies with LED displays and multiple tips .

- **Jameco Electronics:** Provides regulated desktop power adapters from 5V to 48V, with options for hobbyist and professional use, including switching and linear types .

- **Newegg:** Features compact bench power supplies, high-power switching units, and variable DC outputs suitable for lab and industrial applications .

- **Walmart:** Stocks adjustable AC/DC adapters for monitors, laptops, and LED systems, with multiple plug tips and voltage ranges from 5V to 48V .

- **DigiKey & Newark:** Offer extensive selections of desktop and wall-mount AC/DC adapters, including programmable and medical-grade units with multiple output options .

- **Target:** Retailers like Target carry desktop bench power supplies such as the Pyramid PSV150, which provides adjustable voltage and current with built-in overload protection .

Recommendations

- **For hobbyists or DIY electronics:** Choose a compact, adjustable desktop supply (e.g., 0–30V, 0–5A) with multiple connector tips for versatility .

- **For lab or professional use:** Opt for regulated bench power supplies with precise voltage/current control, digital displays, and higher wattage ratings (100–150W or more), .

- **For LED or device charging:** Fixed-output AC/DC adapters (e.g., 12V 5A, 24V 2.5A) are cost-effective and reliable for continuous operation . These desktop AC to DC power supplies provide a stable, reliable, and safe DC source for a wide range of electronics applications, making them a critical tool for both hobbyists and professionals.

Article Content

Amazon : Ac To Dc Power Supply

VAYALT DC 12V 50A 600W Switching Power Supply, 110V/220V AC to DC Converter, Universal Regulated Switching, 12V Power

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AC-DC Power Supply Desktop AC Adapters – Mouser

AC-DC Power Supply Desktop AC Adapters are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

Power Supplies

AC DC Converters AC/DC converters are off-board power supplies that convert AC mains voltage into regulated DC power for

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