# DC power supply integrated power supply price

## Overview

Shop DC power supplies with switching mode design and customizable voltage/current. Explore options with USB charging, encoder knobs, and protection circuits.

## Key Takeaways

Integrated DC power supplies typically range from $50 to over $500 depending on wattage, features, and manufacturer.

### Overview of Integrated DC Power Supplies

Integrated power supplies combine components such as controllers, FETs, inductors, and passives into a single compact module, offering high efficiency, reduced design complexity, and smaller solution size. They are available in both DC/DC and AC/DC configurations, with wattages ranging from 25 W to 400 W for common applications. Higher-power models, such as the NXT-700 (700 W) or NXT-1000 (1000 W) AC/DC supplies, are also available for industrial or specialized use.

### Typical Price Ranges

Low to mid-range DC power supplies (25–100 W): Approximately $50–$150, suitable for small electronics, lab use, or embedded systems. Mid-range integrated modules (100–400 W): Around $150–$400, often featuring multiple outputs, high efficiency (up to 90%), and safety certifications for medical or industrial applications. High-power units (700–1000 W): Prices can exceed $500, designed for demanding industrial, audio/video, or communications systems.

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### Purchasing Options

Distributors: DigiKey and Mouser provide access to Integrated Power Designs (IPD) products, including GRN and NXT series, with fast shipping and technical support. Online Retailers: Amazon offers smaller DC power supplies with adjustable voltage/current, USB charging, and protection features, ideal for hobbyists or lab setups. Direct from Manufacturer: IPD sells directly from their Wilkes-Barre, PA facility, offering custom solutions and higher-wattage units.

### Key Considerations

When selecting an integrated DC power supply, consider: Input voltage range (e.g., 9–18 VDC, 18–36 VDC, 36–72 VDC)Output wattage and number of outputsEfficiency and thermal managementSafety certifications for medical, industrial, or consumer applicationsForm factor and integration level to minimize board space and design complexity. By evaluating these factors alongside price, you can choose a power supply that balances cost, performance, and reliability for your specific application.

## Article Content

DC/DC power modules

In this training series, we discuss the high level of integration of our power modules and the significant implications that this has on power-supply design with respect to solution size, EMI, design time and

Power modules (integrated inductor) | TI

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Amazon : Dc Power Supply

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Uninterruptible power supply

Energy is stored in a flywheel. When the mains power fails, an eddy-current regulation maintains the power on the load as long as the flywheel''s energy is not exhausted. DUPS are sometimes combined

Semiconductor & System Solutions | Infineon Technologies

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Power Supply Calculator

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