

Integrated power supply panel wiring price



Overview

A subpanel is a smaller service panel fed by a 240V breaker on the main panel to extend its circuit capacity.

Key Takeaways

The cost of integrated power supply panel wiring varies widely, typically ranging from a few hundred to several thousand dollars depending on panel type, features, and installation complexity.

Factors Affecting Price

- Panel Type and Application
- Standard industrial panels: Basic wiring and components for motor control or general automation can cost from \$500 to \$2,500 depending on size and I/O points .
- Medical isolated power panels: Panels designed for surgical or life-support applications include isolation transformers, line isolation monitors, and earth fault detection systems, which significantly increase cost. Single-phase transformers range from 0.5 kVA to 10 kVA, with advanced monitoring and alarms adding to the price .
- Components and Features
- Adding remote monitoring, touchscreen displays, or advanced automation increases costs .
- Compliance with UL standards or other certifications may add \$2,000–\$5,500 for initial training, inspections, and annual maintenance .

- Specialized breakers, surge protection, and sidecar modules for isolated panels also contribute to higher pricing .
- Labor and Installation
 - Labor costs depend on panel complexity, wiring density, and location. Panels with multiple circuits, backup systems, or future expansion capacity require more time and skilled labor .
 - Bulk orders can reduce per-panel costs by 15–35%, as suppliers offer wholesale pricing and faster production .
- Size and Capacity
 - Panels with more I/O points or breakers naturally cost more. For example, LCP series panels can control up to 168 breakers, with integrated controllers, which increases both material and labor costs .
 - Planning for future expansion (10–20% extra I/O points) also affects initial wiring and panel cost .

Typical Price Ranges	Panel Type	Approximate Price Range
\$500 – \$1,500	Small industrial control panel	
\$1,500 – \$3,500	Medium industrial panel with advanced I/O	
\$3,000 – \$10,000+	Medical isolated power panel (single room)	
\$10,000 – \$25,000+	Large multi-room or surgical facility panel	

- Cost-Saving Tips
 - Order in bulk to reduce per-unit cost .
 - Standardize components where possible to avoid custom parts.
 - Plan for future expansion to minimize costly retrofits.
 - Use energy-efficient transformers to reduce long-term operational costs .
- In summary, integrated power supply panel wiring costs are highly variable, influenced by panel type, application, features, labor, and compliance requirements. For precise pricing, it is recommended to request a custom quote from suppliers like RS PRO, Schneider Electric, or Starkstrom, providing detailed specifications of your system .

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