

How much is a secondary power distribution box on a construction site



Overview

Prices for temporary power on construction sites vary by project scope, equipment type, and local labor rates.

Key Takeaways

Secondary power distribution boxes for construction sites typically range from \$200 to \$2,500 depending on capacity, phase, and features.

- Basic single-phase site boxes with 16A sockets and standard protection can cost around \$200–\$500. These are suitable for powering standard tools and lighting on small construction sites .
- More advanced single-phase or three-phase boxes with 32A or higher industrial sockets, integrated differential switches, and multiple circuit breakers generally range from \$500–\$1,500 .
- High-capacity or smart distribution boxes with IoT monitoring, arc-fault detection, and robust outdoor-rated enclosures can cost \$1,500–\$2,500 or more, especially for heavy-duty construction or industrial applications .

Key Features Affecting Price

- Phase and Amperage: Single-phase 230V boxes are cheaper, while three-phase 400V boxes for high-power machinery are more expensive .
- Number and Type of Sockets: Standard 16A sockets are less costly; P17 industrial sockets or multiple outlets increase the price .

- **Safety Features:** Integrated differential switches, circuit breakers, emergency stops, and IP44-IP65 rated enclosures add to cost .
- **Durability and Mounting:** Outdoor-rated, high-impact casings, pole or scaffolding mounts, and corrosion-resistant materials increase the total installed cost .
- **Smart Features:** IoT-enabled boxes for predictive maintenance and remote monitoring are at the higher end of the price spectrum .

Examples of Products

- **Kaedra range by Schneider Electric:** IP44/IK09 rated, single-phase or three-phase, pre-equipped with differential switches and circuit breakers, suitable for demanding construction environments .
- **Amazon construction power boxes:** Options like the WESTERN 6506TLSX or 60A high-current boxes with NEMA sockets, circuit breakers, and waterproof enclosures, priced from \$250-\$600 for mid-range models .
- **Spider boxes:** Portable, temporary power solutions for jobsites, often modular and durable, with prices varying by configuration and amperage .

Recommendations

- For small construction sites, a 16A single-phase box is sufficient and cost-effective.
- For medium to large sites with heavy machinery, consider 32A or three-phase boxes with industrial sockets and enhanced safety features.
- Factor in installation, accessories, and future scalability when budgeting, as these can significantly affect the total cost . By comparing specifications, amperage, and safety features, you can select a secondary power distribution box that balances cost, reliability, and compliance for your construction site needs.

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