

Price of a 6kW distribution box

Article Overview

A 6kW distribution box typically costs between \$50 and \$150 per unit, depending on material, protection rating, and included components.

Pricing Overview

The cost of a 6kW distribution box varies based on several factors, including whether it is designed for solar applications, indoor or outdoor use, and the quality of materials and components. For example, a 6kW single-phase solar AC distribution box with IP65 protection, powder-coated plastic enclosure, and a 1-year warranty is available at approximately \$50-\$100 per unit for bulk orders . Prices can increase if the box includes high-quality circuit breakers, surge protectors, or integrated monitoring systems .

Factors Affecting Cost

- o Material: Plastic enclosures are generally cheaper, while powder-coated steel or stainless steel units are more expensive .
- o Protection Rating: Outdoor-rated boxes with IP65 or higher protection cost more than indoor-rated units .
- o Internal Components: Pre-installed breakers, fuses, and busbars increase the price compared to empty enclosures .
- o Customization: Special mounting options, labeling, or integration with building management systems can add to the cost .
- o Installation and Maintenance: Labor and long-term maintenance should be considered in the total investment .

Market Range

- o Residential or small-scale solar setups: \$50-\$150 per unit .
- o Commercial or industrial-grade units: \$200-\$500 or more, depending on capacity, durability, and advanced features . In summary, a 6kW distribution box for typical solar or residential use is generally affordable, with prices starting around \$50 for basic models and increasing with enhanced features, materials, and protection levels. For larger projects or industrial applications, costs can rise significantly due to higher durability and integrated safety systems.

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