

Price quote for a 500kWh off-grid lead-acid battery cabinet system



Article Overview

A 500 kWh off-grid lead-acid battery cabinet system typically costs between \$200,000 and \$350,000 installed, depending on configuration, brand, and additional components.

Estimated Cost Breakdown

1. Battery Modules: Lead-acid batteries generally cost \$150–\$250 per kWh for industrial deep-cycle types. For 500 kWh, this translates to \$75,000–\$125,000. 2. Battery Management System (BMS): While simpler than lithium systems, a BMS or monitoring system is recommended for safety and longevity, costing around \$10–\$15 per kWh, totaling \$5,000–\$7,500. 3. Enclosure and Thermal Management: Proper cabinet housing with ventilation or HVAC is essential for lead-acid batteries, typically \$20,000–\$40,000 depending on size and climate. 4. Inverter/Power Conversion System: For off-grid AC loads, a bidirectional inverter is required. A 500 kW system may need \$35,000–\$50,000 for a high-quality industrial inverter. 5. Balance of System (BOS): Includes cabling, breakers, fuses, and safety equipment, estimated at \$10,000–\$20,000. 6. Installation and Labor: Professional installation, commissioning, and permitting can add \$30,000–\$50,000, depending on site complexity. 7. Contingency and Miscellaneous Costs: Shipping, project management, and minor adjustments may add 5–10% of total hardware cost, roughly \$10,000–\$20,000.

Total Estimated Installed Cost...

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