

CIF Price of 100kW Lithium-ion Battery Storage Units Exported from Japan

Article Overview

The estimated CIF price for a 100kW lithium-ion battery exported from Japan ranges between \$80,000 and \$120,000, depending on battery chemistry, supplier, and shipping arrangements.

Base Price in Japan

Industrial-scale lithium-ion batteries in Japan typically cost JPY0.8-JPY1.2 per Wh, which translates to \$80-\$120 per kWh for commercial systems . For a 100kW (100 kWh) system, this implies a base price of approximately \$80,000-\$120,000 before shipping, insurance, and import duties . Prices vary depending on the chemistry:

- o LiFePO4 (LFP): Known for stability and long cycle life, slightly lower cost per kWh.
- o NMC/NCA: Higher energy density, suitable for high-performance applications, slightly higher cost per kWh.

Shipping and Insurance (CIF Considerations)

CIF pricing includes cost, insurance, and freight to the destination port. For a 100kW battery system:

- o Freight: A 20-foot container can typically hold multiple 100kW units. Shipping from Japan to major ports in the US or Europe may add \$5,000-\$15,000 per container, depending on distance and logistics.
- o Insurance: Standard marine insurance for lithium-ion batteries is around 1-2% of the cargo value, adding roughly \$800-\$2,400 per 100kW unit. Combining base price with shipping and insurance, the CIF price per 100kW unit is roughly \$85,000-\$125,000, though exact figures depend on the supplier, port of destination, and any applicable import duties or taxes .

Additional Considerations

- o Subsidies and incentives: Some Japanese exports may benefit from government-backed incentives for renewable energy projects, potentially lowering effective costs.
- o Warranty and service: Systems with extended warranties (10 years) may increase upfront costs by 12-15% but provide long-term reliability .
- o Customization: Voltage, modularity, and integration with solar or grid systems can affect final pricing. In summary, for budgeting purposes, \$85,000-\$125,000 CIF per 100kW lithium-ion battery unit from Japan is a reasonable estimate, with variations based on chemistry, shipping, and supplier-specific factors.

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In 2026, the landscape of battery pricing reveals some notable trends that impact the green energy sector. The average price of

Recent estimates show that the average global price of lithium-ion batteries will reach 112 U.S. dollars per kilowatt-hour in 2025.

Let's face it--the global demand for lithium battery packs is skyrocketing. From electric vehicles to renewable energy storage, these

BNEF's battery price survey - which spans multiple end uses, including various electric-vehicle types and stationary

Liquid cooled outdoor 215KWH 100KW lithium battery energy storage system cabinet is an energy storage

As renewable energy adoption accelerates globally, understanding the 100 kW energy storage power station cost becomes critical

Fastmarkets wishes to clarify details around the following aspects of the pricing calendar for battery and technical

This is a high voltage 768v lithium ion battery storage system for high voltage 100kw PCS.System with 200kwh (215kWh) built in

Report summary This report analyses the cost of lithium-ion battery energy storage systems (BESS) within the APAC

As a lithium iron phosphate (LiFePO₄) battery manufacturer with over 16 years of production and project experience,

Lithium-ion battery pack prices dropped 20% from 2023 to a record low of \$115 per kilowatt-hour, according to

The Global Lithium-Ion Battery Supply Chain Database of InfoLink shows still excess lithium carbonate and energy

Read more about why you should track lithium commodity prices daily with Fastmarkets' benchmark lithium

Lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot prices cif China, Japan & Korea, \$/kg We recognize the

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Informing the viable application of electricity storage technologies, including batteries and pumped hydro storage, with the latest data

In the commercial space, Japan's battery storage market was valued at USD 593.2 million in 2023 and is projected to

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