Product Carbon Footprint: lnmkjlyphm

Company: kwigwvefwy

Standard: GHG Protocol | **Boundary:** factory_gate

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Total Illustrative PCF (Cradle-to-Grave)

21.92 kg CO_2e

Declared Factory-Gate PCF

5.06 kg CO_2e

per 1.0 unit of lnmkjlyphm

Primary Emission Hotspot

Use Phase

17.50 kg CO_2e (76.65% of positive emissions)

Top Material Hotspot

Li-ion Battery

1.25 kg CO_2e (from raw materials)

Production Country

China

with Europe-focused supply chain

Key Highlights & Insights

- **Use Phase Dominance:** The product's operational use phase accounts for the vast majority (76.65%) of its positive cradle-to-grave emissions, highlighting energy efficiency during product operation as the most critical hotspot.
- **Significant Material Impact:** Raw material acquisition, particularly for components like Lithium-ion batteries (1.25 kg CO2e), aluminum (1.20 kg CO2e), and PCBs (1.20 kg CO2e), contributes substantially to upstream impacts.
- **Circular Economy Benefits:** Robust end-of-life recycling and company-operated take-back programs result in a net avoided emission of -0.91 kg CO2e, demonstrating the positive impact of circular strategies.

Recommended Action Plan

2. **Use Phase Optimization:** Prioritize initiatives to improve product energy efficiency and actively explore options for powering the product with renewable energy in target markets.
4. **Material Lifecycle Optimization:** Investigate and integrate alternative lower-carbon and higher recycled content materials for high-impact components, particularly for batteries and metals.
6. **Supply Chain & Manufacturing Decarbonization:** Continue to increase renewable energy penetration at manufacturing facilities and optimize logistics for reduced transport emissions through mode shifts and route efficiency.
8. **Design for Longevity & Circularity:** Further enhance circular economy integration by extending product lifespan through modular design, repairability, and ensuring high-quality recycling streams.