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Product Carbon Footprint: qkqmlqjwhp

14.07 kg CO₂e

Total Carbon Footprint

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14.07 kg CO₂e

Carbon Footprint Breakdown by Lifecycle Stage

for 1.0 unit of qkqmlqjwhp

Key Insights & Hotspots

Material Acquisition

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7.90 kg CO₂e (56.15%)

Manufacturing Process

Carbon Intensity

Material Acquisition Dominates: The sourcing and processing of raw materials, especially Aluminum and Lithium-ion Battery, account for the largest portion of the product's footprint, totaling 7.90 kg CO₂e.

Transport

15.63 kg CO₂e/kg

Use Phase

Relative to product weight (0.90 kg)

Significant Use Phase Impact: Energy consumption during the product's 3-year lifespan contributes substantially at 3.81 kg CO₂e, indicating opportunities for energy efficiency improvements.**0.24 kg CO₂e (1.71%)****3.81 kg CO₂e (27.08%)**

End-of-Life (Net Credit)

Net Positive End-of-Life: Despite a complex EoL scenario, high recyclability (70%) and circular programs lead to a lifecycle net credit of -0.55 kg CO₂e, demonstrating effective waste management.**-0.55 kg CO₂e (-3.91%)**

Note: End-of-Life shows a net credit due to high recycling offsetting disposal emissions.

Top Material Hotspot