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Product Carbon Footprint Dashboard

Product: **zkhjryhypf** | Company: mvdqsrktku | Consultant: whimypyeqs | Date: May 16, 2026

Total PCF: 145.14 kg CO₂e

TOTAL FOOTPRINT

145.14

kg CO2e

CARBON INTENSITY

145.14

kg CO2e / unit

TOP MATERIAL HOTSPOT

Aluminum Casing

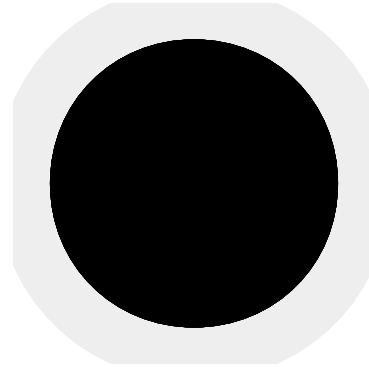
4.00 kg CO2e

PRIMARY EMISSION SCOPE

Scope 3

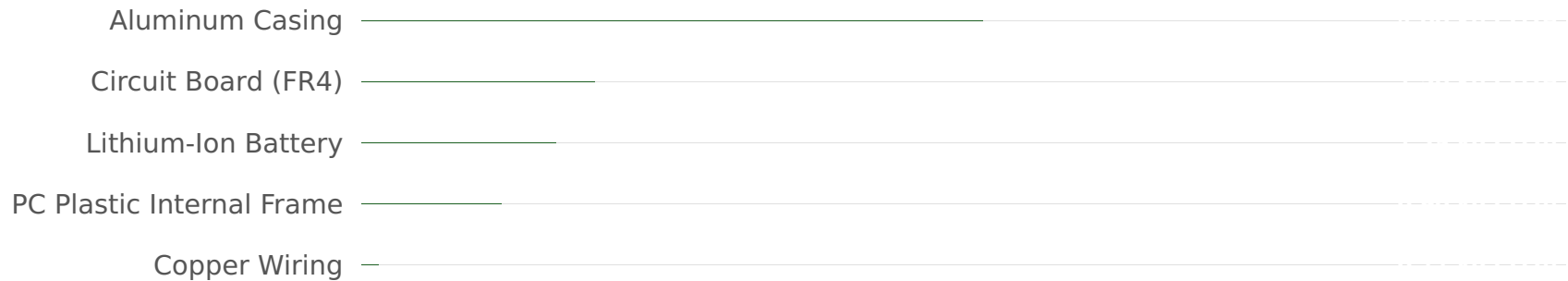
Value Chain Emissions

Carbon Footprint Breakdown by Lifecycle Stage



- Downstream Transportation: 85.90%
- Materials Acquisition & Processing: 5.35%
- Production (Scope 2): 4.49%
- Use Phase: 4.13%
- Upstream Transportation: 0.10%
- End-of-Life: 0.03%

Material Composition Carbon Impact (Upstream)



Key Insights & Hotspots

- **Last-Mile Delivery Dominates:** Downstream transportation accounts for a staggering 85.90% of the total carbon footprint, highlighting it as the primary emission hotspot.
- **Material Impact Significant:** Materials acquisition and processing contribute 5.35%, with Aluminum Casing being the largest single material contributor at 4.00 kg CO2e.
- **Use Phase Energy:** The product's operational use phase adds 4.13% to the total PCF, indicating opportunities for energy efficiency improvements.

Recommended Action Plan

- **Optimize Logistics:** Implement strategies to reduce last-mile delivery distances and explore low-emission transport alternatives (e.g., electric vehicles, localized distribution).
- **Material Decarbonization:** Prioritize sourcing lower-carbon materials for components like aluminum, increase recycled content, and engage suppliers for greener manufacturing processes.
- **Enhance Product Energy Efficiency:** Redesign or optimize the product to minimize energy consumption during its use phase, directly reducing downstream impact.
- **Strengthen Data Collection:** Develop robust systems for primary data collection across the value chain to improve accuracy and meet evolving GHG Protocol requirements.
- **Leverage Circular Economy Initiatives:** Expand take-back and recycling programs beyond 60% to maximize material recovery and minimize waste.