carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: eyzjskvxoo | **Company:** ldnextnnzx
Standard: GHG Protocol | **Boundary:** Cradle-to-Grave
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36.64

Total PCF (kg CO2e)

43.11

Carbon Intensity (kg CO2e/kg)

Aluminium Casing

Top Material Hotspot (3.35 kg CO2e)

Use Phase

Largest Contributor (73.7%, Scope 3)

Lifecycle Emission Breakdown

Materials & Upstream Energy

Production Energy (Scope 2)

Transport & Logistics

Use Phase

Note: End-of-Life provides a net carbon benefit of -2.35 kg CO2e due to strong recycling programs.

Material Carbon Impact

Aluminium Casing

ABS Plastic Components

Electronic Board

Copper Wiring

Based on 5.25 kg CO2e total from Raw Material Acquisition.

Key Insights & Hotspots

- **Use Phase Dominance:** The product's operational lifespan accounts for approximately 73.7% of its total carbon footprint, making it the largest emission hotspot.
- **Raw Material and Production Impact:** Raw material acquisition and manufacturing, coupled with production energy, represent significant upstream emissions, totaling around 30.3% of the footprint.
- **Circular Economy Benefit:** Robust recycling and take-back programs contribute a net carbon benefit of -2.35 kg CO2e, demonstrating effective end-of-life management.

Recommended Action Plan

- **Optimize Use Phase:** Invest in R&D to enhance energy efficiency of eyzjskvxoo during its operational lifespan.
- **Decarbonize Production Energy:** Increase the percentage of renewable energy used in manufacturing beyond the current 30%.
- **Supply Chain Engagement:** Work with material suppliers to explore lower-carbon alternatives for materials like aluminium and plastics.
- **Enhance Circularity:** Continue to strengthen circular/take-back programs and further increase recyclability to maximize end-of-life benefits.