



Carbon Footprint Dashboard:

kuxrzzddnr |
carboncalcpcf.com

Total PCF (per unit)

112.20
kgCO2e

Total Footprint

112.20 kgCO2e

Per 1.0 unit of kuxrzzddnr

System Boundary

Factory Gate

From raw material to facility exit

Top Material Hotspot

Aluminum Casing

6.00 kgCO2e for 0.5kg

Key Insights & Hotspots

- **Use Phase Dominance:** The product's operational lifespan contributes approximately 89.1% of its total carbon footprint, making it the most significant hotspot.
- **Material Acquisition Impact:** Raw material extraction and processing, particularly for Aluminum and Li-ion batteries, are the second largest emission drivers.
- **Circular Economy Benefits:** The high recyclability (70%) and established take-back scheme result in a net credit at End-of-Life, demonstrating positive circularity.

Recommended Action Plan

- ✓ **Prioritize Use Phase Efficiency:** Invest in R&D to significantly improve the energy efficiency of kuxrzzddnr during its operational life.
- ✓ **Optimizing Material Sourcing:** Explore alternative, lower-carbon materials and increase recycled content, especially for aluminum and electronic components.
- ✓ **Enhancing Manufacturing Sustainability:** Continue to increase the share of renewable energy used in production facilities beyond the current 50%.
- ✓ **Strengthening Circular Initiatives:** Expand take-back and recycling programs, exploring advanced technologies to maximize material recovery.