Product Carbon Footprint for xsxeuhrnkf

26.88 kg CO2e

Company: xdutsltyrr | **Boundary:** Cradle-to-gate with Use & EoL

carboncalcpcf.com

Total Footprint

26.88 kg CO2e

Carbon Intensity

26.88 kg CO2e/unit

Top Material Hotspot

Aluminium Casing

(7.50 kg CO2e)

Highlights & Hotspots

- Materials (48.7%) and Use Phase (46.5%) are the dominant emission hotspots, together accounting for over 95% of the product's total carbon footprint.
- Aluminium Casing (7.50 kg CO2e) and Lithium-ion Battery (3.75 kg CO2e) are the most carbon-intensive material components.
- The 75% renewable energy usage in the production phase significantly mitigates Scope 2 emissions, which would otherwise be higher.

Action Plan: How to Reduce Carbon Footprint

1. **Material Decarbonization:** Focus on sourcing lower-carbon alternatives for high-impact materials (Aluminium, Li-ion batteries) and increase recycled content.
2. **Use Phase Efficiency:** Invest in R&D to enhance product energy efficiency during operation and encourage renewable energy solutions for end-users.
3. **Renewable Energy Expansion:** Continuously increase the share of renewable energy in manufacturing operations beyond the current 75%.
4. **Circular Economy Enhancement:** Capitalize on existing product take-back and refurbishment programs; collect data to quantify avoided emissions and inform design for improved circularity.
5. **Supply Chain Optimization:** Optimize transportation routes and modes, prioritizing lower-emission options and encouraging cleaner logistics fleets.