carboncalcpcf.com

Product Carbon Footprint Dashboard

Total PCF for krjslkgntq

43.18 kgCO2e

Total Footprint

43.18 kgCO2e

per 1.0 unit of krjslkgntq

Carbon Intensity

43.18 kgCO2e/unit

Emissions per functional unit

Top Material Hotspot

Lithium-ion Battery

3.6 kgCO2e from materials

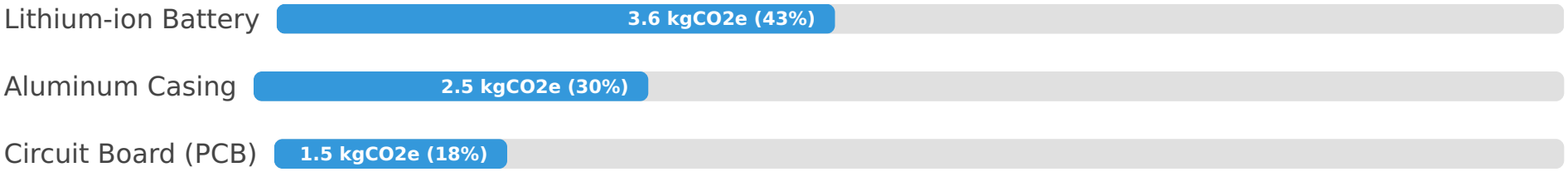
Primary Emission Scope

Lifecycle Stage Breakdown

Emissions by Lifecycle Stage

Top Material Carbon Impact

Emissions from Key Materials (out of 8.30 kgCO2e total material emissions)



Highlights & Emission Hotspots

- **Use Phase Dominance:** The product's operational lifespan contributes a significant 44.00% to the total carbon footprint, driven by energy consumption.
- **Last-Mile Logistics Challenge:** Last-mile delivery, despite its shorter distance, accounts for a substantial portion (34.91% within logistics), indicating efficiency issues in distribution.
- **Material Embodied Emissions:** Raw materials, particularly the Lithium-ion Battery and Aluminum Casing, represent 19.22% of emissions, highlighting sourcing impacts.

Strategic Decarbonization Plan

- **Enhance Product Energy Efficiency:** Redesign for lower energy draw during use and actively promote renewable energy adoption by end-users.
- **Optimize Green Logistics:** Implement electric last-mile fleets, streamline delivery routes, and explore localized production or distribution centers to reduce transport emissions.
- **Drive Sustainable Sourcing & Circularity:** Increase recycled content in components like aluminum, research lower-carbon battery technologies, and expand product take-back and material recovery programs.