Product Carbon Footprint for senrxphwxf

Total PCF: 39.08 kg CO2e

Product

senrxphwxf

kgkdmzxdod

Carbon Intensity

39.08

kg CO2e / unit

Primary Emission Scope

Scope 3

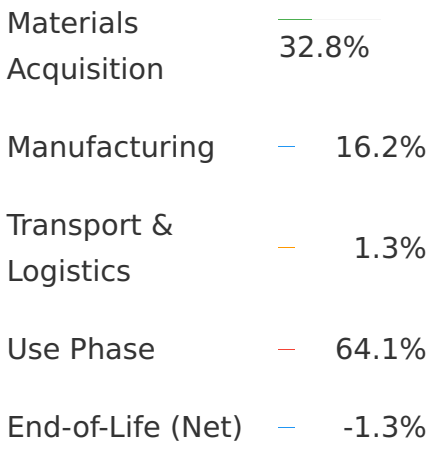
(83.8%)

Top Material Hotspot

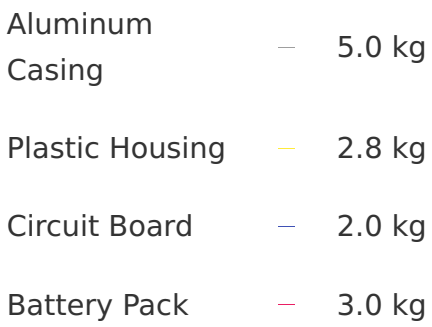
Aluminum Casing

(5.0 kg CO2e)

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights & Hotspots

- **Use Phase (64.1%):** The most significant contributor to the product\'s carbon footprint is the energy consumed during its 5-year lifespan. This highlights a critical area for design intervention, focusing on energy efficiency.
- **Materials Acquisition & Pre-processing (32.8%):** The choice of materials and their associated manufacturing processes have a substantial impact. Aluminum and battery components, in particular, show high individual footprints.
- **Manufacturing/ Production (16.2%):** While smaller than the use phase, electricity consumption in the production facility is notable. Further transitioning to 100% renewables would significantly reduce this scope.

Action Plan: How to Reduce Impact

- **Energy Efficiency in Use Phase:** Invest in R&D to significantly reduce the product\'s energy consumption during its operational life.
- **Sustainable Material Sourcing:** Explore lower-carbon alternatives for aluminum and battery components, or work with suppliers to reduce the footprint of existing materials.
- **Renewable Energy Transition:** Accelerate the transition to 100% renewable energy for manufacturing operations in China to further reduce Scope 2 emissions.
- **Expand Circularity:** Further enhance take-back and recycling programs, exploring opportunities for repair, refurbishment, and remanufacturing.