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Product Carbon Footprint Dashboard

Total PCF for "pwesqrmqnv"

16.00 kg CO2e

Product Name

pwesqrmqnv

Carbon Intensity

16.00 kg CO2e/unit

Primary Emission Scope

Scope 3 (15.55 kg CO2e)

Production Country

China

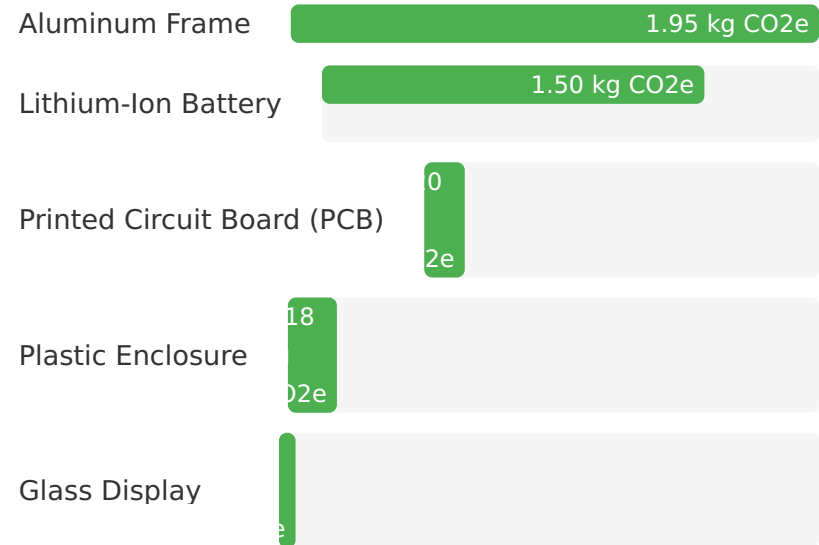
Key Carbon Footprint Insights

Lifecycle Stage Breakdown

PCF



Top Material Carbon Hotspots



Highlights & Key Findings

- The ****Use Phase**** is the predominant emission hotspot, contributing a significant 75.0% of the total Product Carbon Footprint. This emphasizes the critical role of product energy efficiency and user behavior.
- ****Materials Acquisition & Pre-processing**** represents the second largest impact, accounting for 24.9% of emissions. Sourcing low-carbon materials is crucial for reduction.
- ****Circular economy initiatives**** at the End-of-Life stage demonstrate a positive impact, resulting in 7.6% of the total PCF as net avoided emissions. This highlights the effectiveness of robust take-back and recycling programs.

Recommendations for Emission Reduction

- **Enhance Use Phase Efficiency:** Invest in R&D to significantly reduce the product's energy consumption during its 5-year operational lifespan.
- **Sustainable Material Sourcing:** Prioritize materials with lower embedded carbon footprints and explore recycled content or bio-based alternatives.
- **Strengthen Circular Economy Initiatives:** Expand and promote existing product take-back and refurbishment programs to maximize material recovery and extend product utility.
- **Manufacturing Decarbonization:** Increase the share of renewable energy procurement and implement energy efficiency measures at production facilities in China.