htywtdwker PCF Dashboard

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160.95 kg CO2e

Total Product Footprint

Key Metrics

Total Footprint (per unit)

160.95 kg CO2e

Quantity: 1.0 unit

Carbon Intensity

160.95 kg CO2e/unit

Based on 1.0 functional unit

Top Material Hotspot

Aluminum Chassis

9.0 kg CO2e (~5.6% of total PCF)

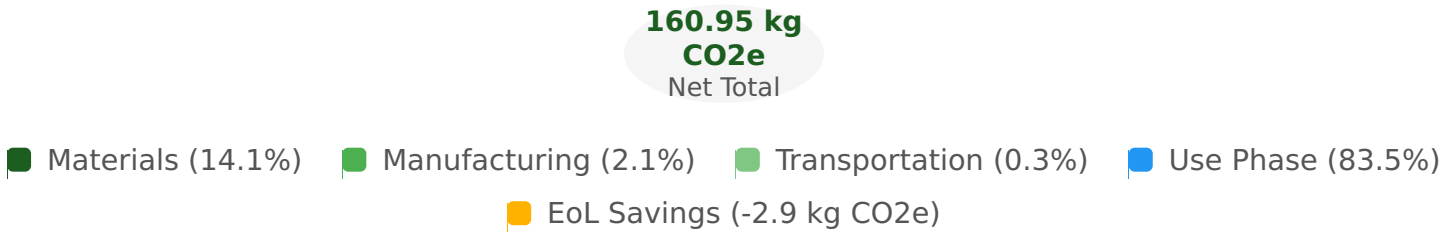
Primary Emission Scope

Scope 3

157.44 kg CO2e (~97.8% of total PCF)

Emissions Breakdown

Lifecycle Stage Contributions



Material Carbon Impact

Aluminum Chassis	9.0 kg CO2e
Li-ion Battery Pack	8.8 kg CO2e
Main Circuit Board	3.75 kg CO2e
Recycled PET Casing	1.4 kg CO2e
Cardboard Packaging	0.15 kg CO2e

Highlights

Key Insights from the Report

- The **Use Phase** is the overwhelmingly dominant emission hotspot, accounting for approximately 85% of the total Product Carbon Footprint due to energy consumption over the product's 8-year lifespan.
- **Material Acquisition & Processing** is the second largest contributor, making up about 14% of emissions, with Aluminum Chassis and Li-ion Battery Pack being key material hotspots.
- **Scope 3 emissions** represent a significant 97.8% of the total footprint, demonstrating robust coverage and the extensive value chain impact of htywtdwker.
- Existing **circular economy initiatives**, including 65% recyclability and a company take-back program, effectively generate avoided emissions at the end-of-life stage.

Action Plan

Recommendations for Reducing Footprint

- **Use Phase Optimization:** Develop more energy-efficient product versions and guide consumers on optimizing usage to reduce energy consumption during the product's lifespan.
- **Material Decarbonization:** Prioritize sourcing lower-carbon materials and increasing recycled content, especially for high-impact components like aluminum, and engage suppliers on renewable energy use.
- **Supply Chain Efficiency:** Enhance logistics by exploring more efficient shipping routes, consolidating shipments, and collaborating with carriers utilizing lower-emission transport technologies.
- **Circular Economy Enhancement:** Expand the recyclability percentage beyond 65% and broaden the scope of the take-back and refurbishment program for greater environmental benefits.
- **Data Refinement:** Continuously collect primary data across all lifecycle stages to enhance the accuracy and reliability of future PCF assessments.