

Product Carbon Footprint Dashboard

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Total PCF: **147.97 kgCO2e** per 1.0 unit

Company: frxssiqdrp | **Standard:** GHG Protocol | **System Boundary:** Cradle-to-Grave

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TOTAL FOOTPRINT

147.97 kgCO₂e

CARBON INTENSITY

147.97 kgCO₂e/unit

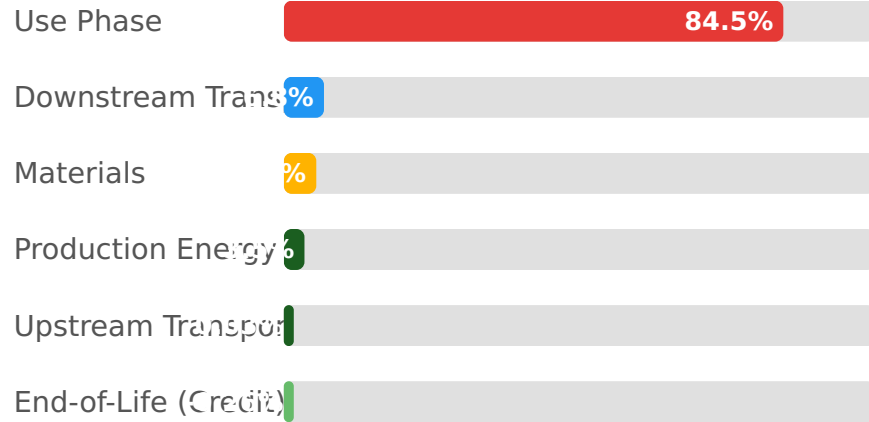
TOP MATERIAL HOTSPOT

PCB (3.25 kgCO₂e)

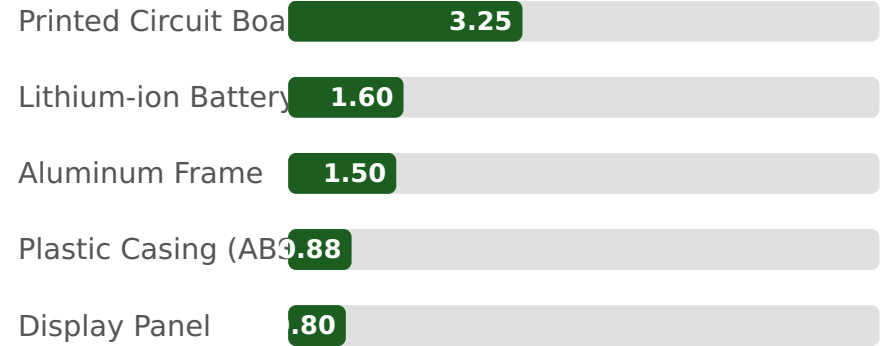
PRIMARY EMISSION SCOPE

Scope 3

Lifecycle Stage Breakdown



Top Material Carbon Impact (kgCO2e)



Key Insights & Hotspots

- The **Use Phase** is the dominant hotspot, contributing 84.5% to the total PCF due to estimated energy consumption over its 5-year lifespan.
- **Downstream Transportation** accounts for 6.8% of emissions, highlighting the significant impact of last-mile delivery logistics.
- Materials like the **Printed Circuit Board (PCB)** and **Lithium-ion Battery** are key upstream hotspots within purchased goods and services.

Recommendations for Reduction

- 1 Optimize Use Phase Energy Efficiency:** Design for lower energy consumption during product operation and educate users on responsible energy usage.
- 2 Enhance Downstream Logistics:** Explore more efficient last-mile delivery options, such as electric vehicles, optimized routing, and local distribution hubs.
- 3 Improve Material Sourcing:** Collaborate with suppliers to source lower-carbon materials, increase recycled content, and prioritize environmentally robust suppliers.
- 4 Increase Renewable Energy in Manufacturing:** Strive for 100% renewable energy at the manufacturing facility in China to eliminate Scope 2 emissions.
- 5 Strengthen Circularity:** Leverage the "Active Take-back Program" to maximize actual recycling and reuse rates, exceeding the 70% recyclability target, and implement design for disassembly.

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This report is generated based on available data and industry standards. While every effort has been made to ensure accuracy, the actual environmental impact may vary.