

# Product Carbon Footprint for

**23.94** kg  
CO2e

Analyzed by kngjmhshsz for enywupexwy - GHG Protocol Standard - May 26, 2026

Total Product Footprint

Total Footprint

**23.94 kg CO2e**

Per 1.0 unit of xzjmeyjqgg

Primary Emission Scope

**Scope 3 Downstream**

12.19 kg CO2e (~50.9%)

Top Hotspot Category

**Use Phase**

8.75 kg CO2e (~36.5%)

## Key Emission Highlights

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- The **Use Phase** (Category 11 Downstream Scope 3) is the largest hotspot, contributing ~36.5% of the total footprint, driven by product lifespan and energy consumption.
- **Purchased Goods and Services** (Category 1 Upstream Scope 3) accounts for ~30.9% of emissions, with materials like Aluminum, PCBs, and Li-ion batteries being significant contributors.
- **Downstream Transportation** (Category 9 Downstream Scope 3) represents ~21.7% of the total, largely influenced by last-mile delivery.

## Recommendations for Reduction

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1. **Use Phase Optimization:** Design for energy efficiency and extended product lifespan through modularity and repairability.
2. **Sustainable Sourcing:** Prioritize lower-carbon materials, increase recycled content, and seek primary emission data from suppliers.
3. **Logistics Optimization:** Improve transport routes, explore lower-emission modes (e.g., rail), and partner for electric last-mile delivery.
4. **Circular Economy Expansion:** Strengthen take-back and refurbishment programs to maximize material circularity and avoided emissions.

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