

html

carboncalpcf.com

Product Carbon Footprint Dashboard

for jfijpgysgo

37.815 kg CO₂e

Generated: May 21, 2026 | Standard: GHG Protocol | System Boundary: Cradle-to-Grave

Total Footprint

37.815 kg CO₂e

Carbon Intensity

37.815 kg CO₂e / unit

(for 1.0 unit)

Top Material Hotspot

Aluminum Alloy Casing

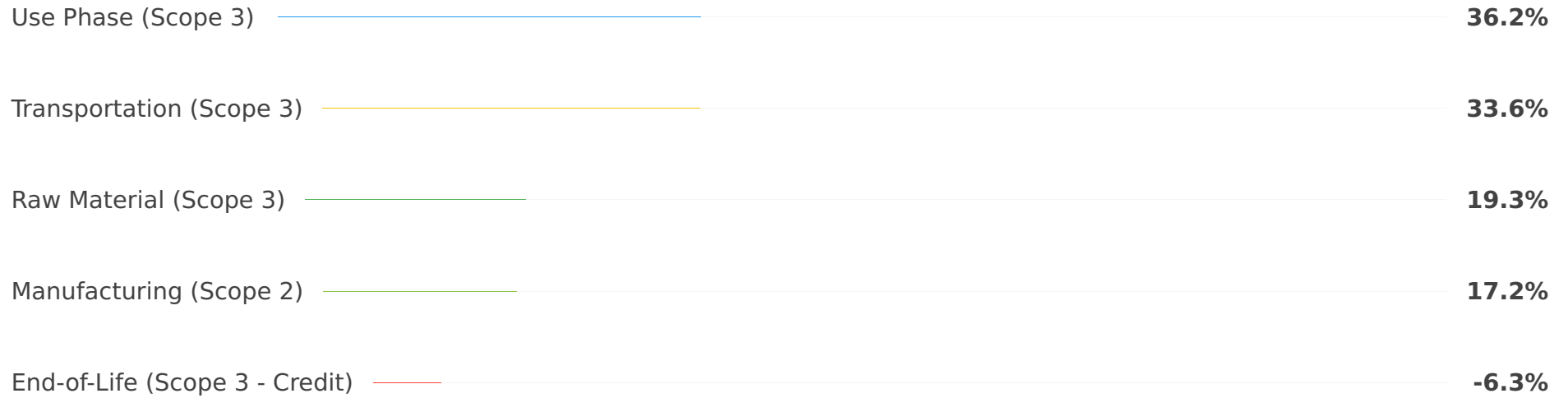
(3.00 kg CO₂e)

Primary Emission Scope

Scope 3

(Upstream & Downstream)

Lifecycle Stage Breakdown



Material Carbon Impact

Aluminum Alloy Casing	3.00 kg CO2e
Electronic Components (PCB)	3.00 kg CO2e
ABS Plastic Housing	0.93 kg CO2e
Copper Wiring	0.35 kg CO2e

Key Highlights

- The **Use Phase** is the largest contributor, accounting for 36.2% of the total carbon footprint, emphasizing the need for energy-efficient product design.
- **Transportation & Distribution** is a significant hotspot at 33.6%, driven primarily by the last-mile delivery segment.
- **Raw Material Acquisition** contributes 19.3%, with Aluminum Alloy Casing and Electronic Components being major material-related impacts.
- **End-of-Life Treatment** provides a net carbon credit of -6.3% due to high recyclability and active circular programs, showcasing effective circular economy strategies.

Recommendations for GHG Reduction

- 1. Product Design for Energy Efficiency:** Prioritize design improvements to significantly reduce energy consumption during the product's 5-year use phase.
- 2. Sustainable Sourcing:** Actively explore and implement opportunities to source lower-carbon materials, including recycled content and materials from suppliers with certified low-carbon production processes.
- 3. Renewable Energy Procurement:** Increase the percentage of renewable energy utilized in manufacturing operations in China, leveraging green power purchasing agreements or on-site solutions.
- 4. Optimized Logistics:** Enhance efficiency by consolidating shipments, exploring alternative low-emission transport modes (e.g., rail), and optimizing last-mile delivery routes with electric vehicle fleets.
- 5. Enhance Circularity:** Further develop and robustly promote circular economy initiatives, including comprehensive take-back programs, repair services, and advanced recycling infrastructure.