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Product Carbon Footprint for tykzixwklI

Total Footprint: **50.12 kg CO₂e**

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50.12 kg CO₂e

Per 1.0 unit of tykzixwklI

Carbon Intensity

50.12 kg CO₂e/unit

Per functional unit

Top Material Hotspot

Aluminium Casing

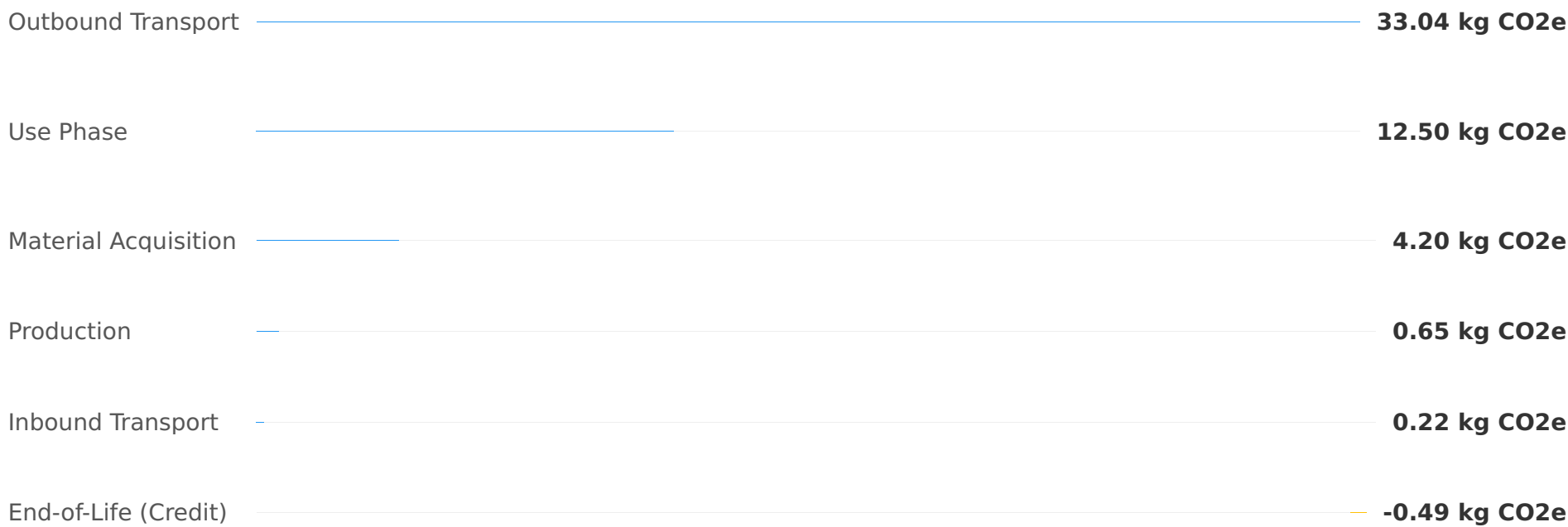
1.50 kg CO₂e from raw materials

Primary Emission Scope

Scope 3

49.47 kg CO2e (98.7% of total)

Lifecycle Stage Breakdown



Material Carbon Impact

Aluminium Casing	1.50 kg CO2e
Li-ion Battery	1.25 kg CO2e
Printed Circuit Board	0.90 kg CO2e
Recycled Plastic Shell	0.50 kg CO2e
Copper Wiring	0.05 kg CO2e

Highlights & Hotspots

Outbound Transportation accounts for ~66% of the total footprint, driven by long-distance parcel delivery.

The **Use Phase** contributes significantly at ~25%, highlighting the importance of energy efficiency over the product's 7-year lifespan.

Material Acquisition, particularly for components like Aluminium Casing and the Lithium-ion Battery, represents ~8% of total emissions.

Recommendations for Reduction

Optimize Transportation Logistics: Explore lower-emission modes, consolidate shipments, and shorten last-mile delivery distances.

Enhance Product Energy Efficiency: Focus R&D on reducing energy consumption during the use phase and promote efficient user behavior.

Sustainable Material Sourcing: Prioritize materials with lower embodied carbon, especially for high-impact components, and increase recycled content.

Strengthen Circular Economy Initiatives: Expand take-back programs and component refurbishment to maximize material utility and reduce end-of-life impacts.