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Product Carbon Footprint Report

Product: gxveynxufq | **Company:** jxjvrzujvg | **Standard:** GHG Protocol

System Boundary: cradle-to-grave | Production Country: China

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17.76 kgCO₂e

Total Product Footprint

17.76 kgCO₂e

Carbon Intensity

17.76 kgCO₂e/unit

Top Material Hotspot

Aluminum Casing

(3.50 kgCO₂e)

Primary Emission Scope

Scope 3

(Indirect Emissions)

Key Insights & Hotspots

The **Use Phase** is the single largest contributor, accounting for 67.0% of the total carbon footprint, primarily due to electricity consumption over the product's 5-year lifespan.

Raw Material Acquisition is the second major hotspot at 39.1%, with high-impact materials like the Lithium-ion battery and Aluminum Casing being significant contributors.

A substantial **End-of-Life credit (-15.1%)** is achieved due to an 80% recyclability rate and implemented take-back schemes, significantly reducing the overall net footprint.

Recommendations for Reduction

Energy Efficiency in Use: Prioritize product redesign to drastically reduce energy consumption during the use phase through more efficient components and smart power management.

Material Optimization: Explore lower-carbon alternatives or increase recycled content for high-impact materials such as batteries and aluminum.

Circular Economy Expansion: Enhance and expand existing take-back programs and recycling infrastructure to further maximize material recovery and extend product lifespans.

Supply Chain Engagement: Collaborate with suppliers of key components to encourage renewable energy adoption in their manufacturing processes.