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Product Carbon Footprint: szwryizeks

Company: eeixkjsipu | Standard: GHG Protocol | Consultant: pikkszmjis

47.34 kg CO₂e
Total Carbon Footprint

Total Footprint

47.34 kg CO2e

Overall environmental impact of one unit of szwryizeks.

Carbon Intensity

47.34 kg CO2e/unit

Emissions per functional unit, based on a cradle-to-grave analysis.

Top Material Hotspot

Aluminium Casing

This material contributes 3.50 kg CO2e to upstream emissions.

Primary Emission Scope

Scope 3

Carbon Impact by Material (Top 5)

Aluminium Casing

Printed Circuit Board (PCB)

Lithium-Ion Battery

ABS Plastic Housing

Copper Wire

Action Plan: How to Reduce Carbon Footprint

- **Optimize Use Phase Efficiency:** Redesign 'szwryizeks' for significantly lower energy consumption through more efficient components and advanced power management features.
- **Enhance Material Circularity:** Increase recycled content in key materials like Aluminium and ABS plastic. Strengthen existing take-back programs to boost material recovery and minimize virgin resource use.
- **Decarbonize Manufacturing:** Further increase renewable energy sourcing beyond 70% at the China production facility and implement comprehensive energy efficiency improvements across all manufacturing processes.
- **Supply Chain Engagement:** Collaborate closely with European suppliers to identify and source lower-carbon alternatives for raw materials and components, and optimize transport logistics for reduced upstream emissions.
- **Product Lifespan Extension:** Focus design efforts on enhancing durability, modularity, and reparability to extend the product's lifespan beyond 5 years, thereby amortizing its embodied emissions over a longer period.

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