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Product Carbon Footprint Dashboard

24.57 kgCO₂e

Total PCF for "rwovjvjuzu"

24.57

TOTAL FOOTPRINT (KGC02E)

24.57

CARBON INTENSITY (KGC02E/UNIT)

Electronic Board

TOP MATERIAL HOTSPOT (9.25 KGC02E)

Use Phase

PRIMARY EMISSION HOTSPOT (25.00 KGC02E)

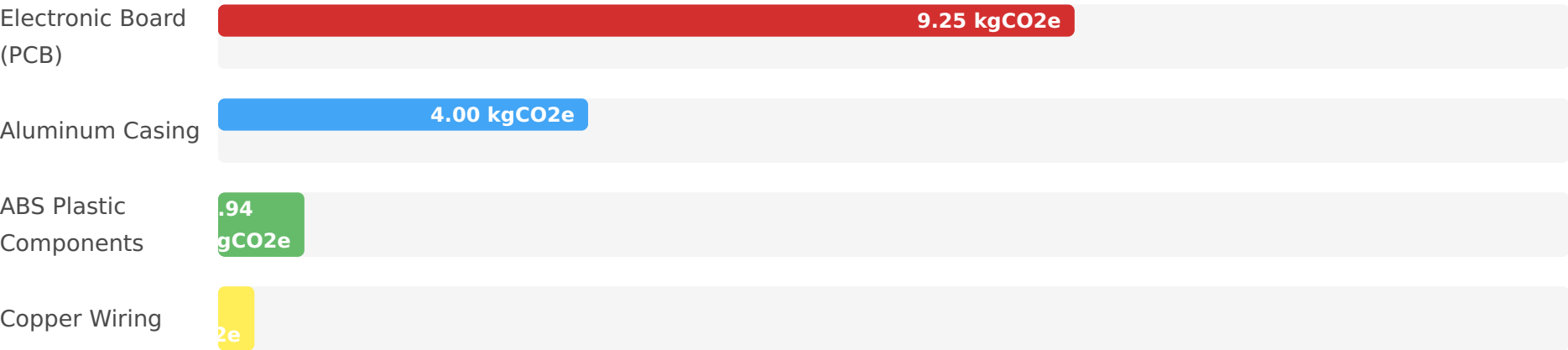
Lifecycle Stage Breakdown

**Net: 24.57
kgCO₂e
(Excl. EoL
Credit)**

- Scope 2 (Manufacturing Electricity): 2.48 kgCO₂e (5.8%)
- Scope 3 (Materials): 14.59 kgCO₂e (34.3%)
- Scope 3 (Upstream Transport): 0.17 kgCO₂e (0.4%)
- Scope 3 (Last-Mile Delivery): 0.25 kgCO₂e (0.6%)
- Scope 3 (Use Phase): 25.00 kgCO₂e (58.8%)

EoL Credit: -11.48 kgCO₂e

Material Carbon Impact



Key Insights & Highlights

- The **Use Phase** (25.00 kgCO2e) is the largest single contributor, accounting for over 100% of the net PCF before EoL credits due to energy consumption over the product's lifespan.
- **Raw Materials** (14.59 kgCO2e), especially the Electronic Board and Aluminum Casing, represent a significant upstream hotspot.
- A substantial **End-of-Life credit** of -11.48 kgCO2e is achieved through high recyclability (80%) and active circular programs, significantly mitigating the product's overall impact.

Action Plan: How to Reduce Carbon Footprint

1. ****Optimize Use Phase Efficiency:**** Focus R&D on reducing energy consumption during the product's operational lifespan, exploring smart features or lower power modes.
2. ****Source Low-Carbon Materials:**** Engage with suppliers for primary data and explore alternatives like lower-carbon aluminum, plastics, and electronic components, or increase recycled content.
3. ****Enhance Last-Mile Logistics:**** Investigate route optimization, electric/alternative-fuel delivery vehicles, and shipment consolidation to reduce delivery emissions.
4. ****Increase Renewable Energy in Manufacturing:**** Further boost renewable energy use at the China manufacturing facility to reduce Scope 2 emissions.
5. ****Strengthen Circularity:**** Expand circular/take-back programs and explore advanced recycling technologies to maximize material recovery.

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Data based on GHG Protocol (2026 LSR Update considered) - Cradle-to-Grave Analysis.