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Product Carbon Footprint Report: komqwgpsnh

Generated Date: May 17, 2026

Total PCF

28.92 kg CO₂e

Functional Unit

1.0 unit

Product Quantity Assessed

System Boundary

Cradle-to-Grave

Full lifecycle assessment

Production Country

China

Primary manufacturing location

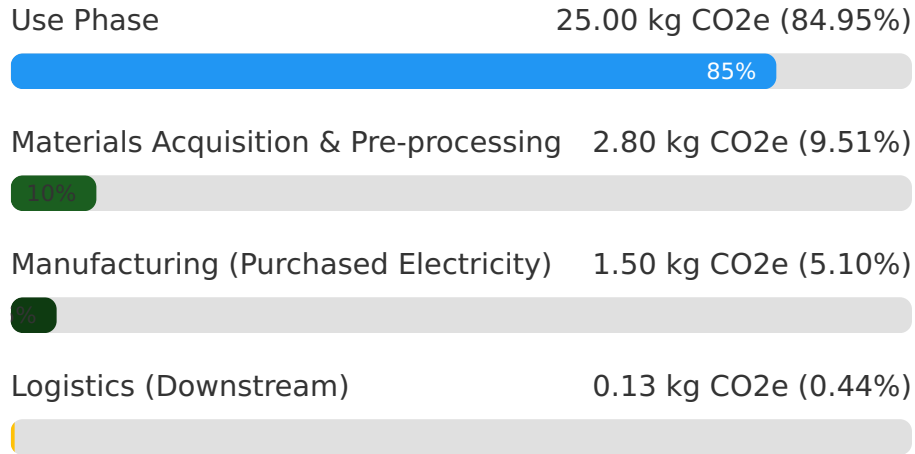
Reporting Standard

GHG Protocol

Globally recognized standard

Key Carbon Insights

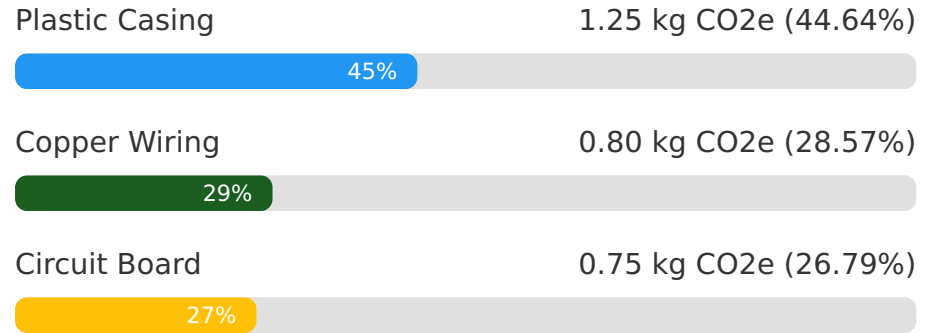
Lifecycle Stage Breakdown



End-of-Life (Net Reduction)

-0.51 kg CO2e (Net avoided emissions from recycling)

Material Carbon Impact



Total raw material carbon footprint: **2.80 kg CO2e**

Highlights

- The **Use Phase** is the single largest contributor to the product's carbon footprint, accounting for 25.00 kg CO2e of the total.
- **Materials Acquisition & Pre-processing** represents the second-largest hotspot at 2.80 kg CO2e, indicating significant embodied emissions in raw materials.
- The product benefits from a **net carbon avoidance of 0.51 kg CO2e** at End-of-Life due to high recyclability (80%) and robust take-back programs.

Recommended Actions

1. **Optimize Use Phase Energy Efficiency:** Prioritize R&D to significantly reduce the product's energy consumption during its lifespan.
2. **Enhance Material Sustainability:** Explore lower-carbon materials, increase recycled content, and pursue local sourcing.
3. **Increase Renewable Energy Sourcing:** Invest further in renewable energy for manufacturing operations, aiming for 100% renewable energy.
4. **Evaluate Logistics Efficiency:** Optimize transport routes and modes, and explore electric vehicles for last-mile delivery.
5. **Strengthen Circular Economy Programs:** Expand the product take-back and refurbishment program to maximize material recovery.

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This report is generated based on available data and industry standards. Specific values are subject to the limitations of input data and emission factors used.