

html

# Product Carbon Footprint Dashboard

for **gkzztdlqil**

Summarizing key sustainability insights from your latest report.

powered by [carboncalcpcf.com](https://carboncalcpcf.com)

Total Product Footprint

**15.74** kgCO<sub>2</sub>e/unit

Carbon Intensity

**15.74** kgCO<sub>2</sub>e/unit

Top Material Hotspot

**Aluminum Alloy**

(3.50 kgCO<sub>2</sub>e of 7.00 kgCO<sub>2</sub>e)

Primary Emission Scope

## **Scope 3**

(Raw Materials & Use Phase)

## Lifecycle Stage Breakdown

Raw Materials (Scope 1)	44.47%
Use Phase (Scope 2)	39.71%
Purchased Energy	15.25%
Downstream Transport	1.05%
Upstream Transport	0.86%
Direct Emissions (Scope 1)	0.32%
End-of-Life (Net Credit)	-1.65%

## Material Impact Breakdown (Total: 7.00 kgCO2e)

Aluminum Alloy	3.50 kgCO2e
Electronic PCB	1.50 kgCO2e
Lithium-ion Battery	1.25 kgCO2e
ABS Plastic Granules	0.60 kgCO2e
Corrugated Cardboard	0.15 kgCO2e

## Highlights & Key Insights

---

- **Raw Materials (44.47%)** and the **Use Phase (39.71%)** are the dominant carbon hotspots, collectively contributing over 84% of the product's total footprint.
- Despite assumed **60% renewable energy usage** in production, purchased electricity (Scope 2) accounts for a significant **15.25%** due to the grid intensity in the production country, China.
- The high assumed recyclability rate of **70%** and circular programs lead to a **net carbon credit (-1.65%)** in the End-of-Life phase, demonstrating the positive impact of circular economy principles.

## Action Plan: How to Reduce Your Footprint

---

1. **Material Optimization:** Prioritize sourcing lower-carbon alternatives for high-impact materials like Aluminum Alloy and Electronic PCBs. Increase recycled content.
2. **Energy Efficiency in Use:** Enhance the product's energy efficiency during its operational life and guide users towards renewable energy sources.
3. **Production Decarbonization:** Further increase renewable energy adoption at manufacturing facilities in China or engage with suppliers for cleaner energy.
4. **Supply Chain Engagement:** Collaborate with key suppliers to gather primary data on their operational emissions and encourage their decarbonization initiatives.
5. **Circular Economy Enhancement:** Strengthen take-back programs and design for disassembly/repair to maximize end-of-life circularity and resource efficiency.