

html

# yewyzvzzgi PCF Dashboard

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Total PCF

**74.79 kgCO2e**

Product Weight

**6.45 kg**

TOTAL CARBON FOOTPRINT

**74.79 kgCO<sub>2</sub>e**

CARBON INTENSITY

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

TOP MATERIAL HOTSPOT

**Aluminum (37.5 kgCO<sub>2</sub>e)**

PRIMARY EMISSION SCOPE

**Scope 3 (~73%)**

## Lifecycle Stage Breakdown

|                                 |       |
|---------------------------------|-------|
| Materials (Scope 3, Cat 1)      | 58.7% |
| Manufacturing Energy (Scope 2)  | 27.0% |
| Use Phase (Scope 3, Cat 11)     | 12.1% |
| Transportation (Scope 3, Cat 9) | 2.2%  |
| End-of-Life (Scope 3, Cat 12)   | 0.0%  |

## Top Material Carbon Impact

|                      |             |
|----------------------|-------------|
| Aluminum Component   | 37.5 kgCO2e |
| Circuit Board (PCB)  | 3.0 kgCO2e  |
| Plastic Casing (ABS) | 2.0 kgCO2e  |
| Lithium-ion Battery  | 1.0 kgCO2e  |

## Key Highlights

The largest portion of yewyzvzzgi's carbon footprint (~**58.7%**) originates from raw material acquisition, especially the Aluminum Component.

Purchased electricity for manufacturing is the second significant hotspot, contributing approximately **27.0%** to the total PCF.

The product's use phase accounts for ~**12.1%**, indicating opportunities for enhanced energy efficiency during customer usage.

## Recommendations for Reduction

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- 1 Material Decarbonization:** Engage with suppliers to explore lower-carbon alternatives for high-impact materials, particularly aluminum, or increase the use of recycled content.
- 2 Renewable Energy Transition:** Accelerate the transition to 100% renewable energy for manufacturing operations in China, beyond the current 30% usage.
- 3 Product Energy Efficiency:** Invest in R&D to further reduce the energy consumption of yewyzvzzgi during its use phase through design optimization or smart energy management.
- 4 Circular Economy Enhancement:** Strengthen take-back programs and explore innovative recycling technologies to maximize material recovery and minimize waste, building on the 70% recyclability.