

# Product Carbon Footprint Dashboard

Product: zwxegnwjoq

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## 19.76 kgCO<sub>2</sub>e

Total Carbon Footprint

### TOTAL FOOTPRINT

## 19.76 kgCO<sub>2</sub>e

### CARBON INTENSITY

## 24.70 kgCO<sub>2</sub>e/kg

**TOP MATERIAL HOTSPOT**

**Aluminum Enclosure**

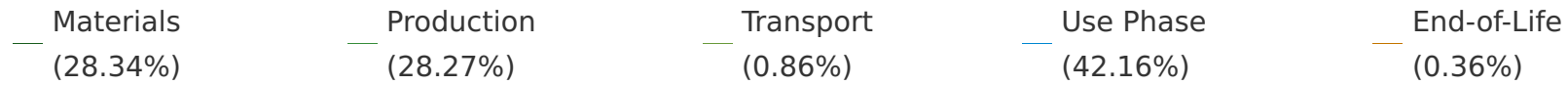
3.5 kgCO<sub>2</sub>e

**PRIMARY EMISSION SCOPE**

**Scope 3**

71.73% of total

## Lifecycle Stage Breakdown



## Material Carbon Impact



## Key Highlights

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The **Use Phase** is the largest emission hotspot, accounting for 42.17% of the total PCF, driven by energy consumption during the product's lifespan.

**Material Acquisition & Pre-processing** contributes 28.35%, with the Aluminum Enclosure and Circuit Board being significant contributors.

The **Production Phase** in China accounts for 28.27% of emissions, despite 40% renewable energy use, highlighting the impact of residual grid electricity.

## How to Reduce Footprint

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**Enhance Energy Efficiency:** Focus on reducing product energy consumption during the use phase through design optimization.

**Source Low-Carbon Materials:** Prioritize recycled content and materials with lower embodied carbon, especially for the aluminum enclosure and circuit board.

**Increase Renewable Energy:** Further increase renewable energy procurement or invest in on-site generation at manufacturing facilities in China to reduce production emissions.