

carboncalcpcf.com

Carbon Footprint Dashboard

Product: jiwqwtukor

Total PCF: 38.60 kg CO₂e

Total Footprint

38.60

kg CO₂e
per 1 unit

Carbon Intensity

38.60

kg CO₂e/unit
functional unit

Top Material Hotspot

Aluminum

(6.00 kgCO₂e)
Casing

Key Emission Hotspots

- **Use Phase (64.76%):** Dominated by energy consumption during the product's 5-year lifespan, indicating a critical area for energy efficiency improvements.
- **Material Production (27.82%):** Significant impact from raw material extraction and manufacturing, particularly for aluminum and electronic components.
- **Production (Purchased Electricity) (6.48%):** Despite 70% renewable energy use, the remaining grid electricity contribution is notable.

Recommendations for Reduction

1. **Enhance Use Phase Efficiency:** Prioritize R&D for more energy-efficient product designs.
2. **Sustainable Material Sourcing:** Investigate opportunities for lower embodied carbon materials (e.g., recycled aluminum, bio-based plastics).
3. **Supplier Engagement:** Collaborate with key suppliers to reduce their upstream emissions (Scope 3, Category 1).
4. **Increase Renewable Energy in Production:** Aim for 100% renewable energy in manufacturing operations in China.
5. **Optimize Logistics:** Evaluate transport modes and distances to reduce transportation emissions.
6. **Strengthen Circularity:** Leverage existing take-back programs and enhance material recovery and closed-loop recycling.