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carboncalcpf.com

dztdnxkilk Carbon Footprint

31.88 kgCO₂e

Total Product Footprint

Report for: **djeryunixg** | Generated: June 1, 2026

Key Metrics

TOTAL PCF

31.88 kgCO2e

PRIMARY EMISSION SCOPE

Scope 3

TOP LIFECYCLE HOTSPOT

Use Phase

PRODUCTION COUNTRY

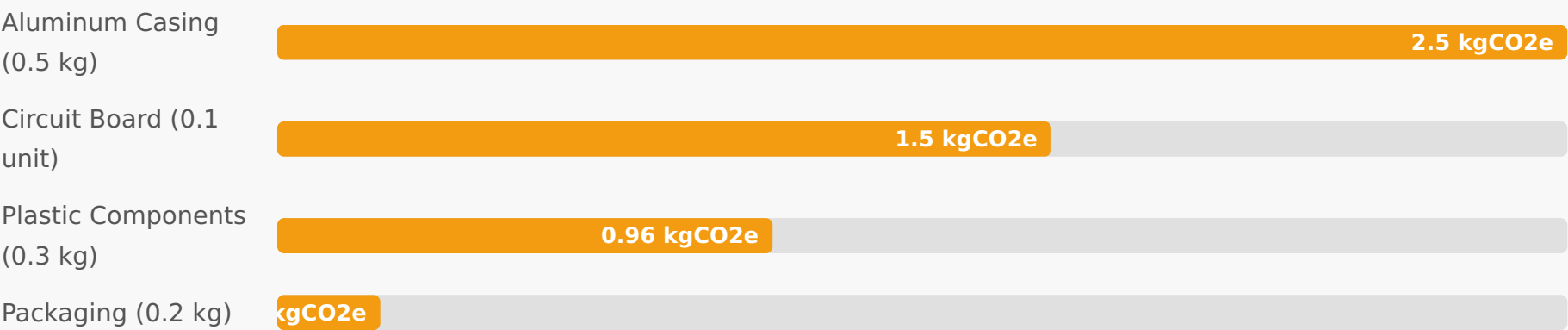
China

Carbon Breakdown

Emissions by Lifecycle Stage



Material Composition vs. Carbon Impact



Highlights

- **Product Use Phase is the Dominant Hotspot:** Accounting for ~78.4% (25.00 kgCO₂e) of the total footprint, energy consumption during product lifespan is critical.
- **Material Acquisition is Significant:** Raw materials and their processing contribute ~16.2% (5.16 kgCO₂e), highlighting the importance of material choices.
- **GHG Protocol Adherence:** The analysis strictly follows GHG Protocol Product Standard, with ~95% Scope 3 coverage, ensuring robust reporting.

Recommendations for Reduction

- **Optimize Use Phase:** Design for energy efficiency, extend product lifespan, and educate consumers on efficient product use.
- **Material Optimization:** Explore lower-carbon, recycled, or bio-based material alternatives, especially for high-impact components like Aluminum Casing and Circuit Board.
- **Increase Renewable Energy Sourcing:** Enhance the proportion of renewable energy used at the China manufacturing facility.
- **Improve Logistics Efficiency:** Optimize transport routes, consider lower-emission modes, and maximize load factors for transportation.

- **Enhance Circularity:** Further develop and promote take-back programs and improve recyclability to reduce end-of-life impacts.

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