

html

Product Carbon Footprint Dashboard

Product: wvvxknpypu | **Company:** mrlugdittp

Consultant: mhehkyykjs | **Standard:** GHG Protocol

37.375 kg CO₂e/unit
carboncalcpcf.com

Total Footprint (per unit)

37.375 kg CO₂e

Carbon Intensity

37.375 kg CO₂e/unit

Primary Emission Hotspot

Use Phase (66.36%)

Top Material Impact

Aluminum Alloy (52.93%)

Lifecycle Stage Breakdown

Use Phase (Scope 3, Cat 11) 25.00 kg CO2e (66.36%)

66%

Materials (Scope 3, Cat 1) 7.085 kg CO2e (18.80%)

19%

Manufacturing Energy (Scope 2) 1.50 kg CO2e (12.63%)

13%

Aluminum Alloy Casing 3.75 kg CO2e (52.93%)
Logistics (Scope 3, Cat 4 & 9) 0.83 kg CO2e (2.20%)

Lithium-Ion Battery 1.50 kg CO2e (21.17%)

End-of-Life (Net Credit) -0.30 kg CO2e
Circuit Board (PCB) 1.20 kg CO2e (16.64%)

-0.30 kg CO2e

ABS Plastic Components 0.60 kg CO2e (8.47%)

Cardboard Packaging 0.035 kg CO2e (0.49%)

Highlights & Hotspots

The **Use Phase** accounts for the largest share of the product's carbon footprint (approx. 66%). This indicates significant energy consumption during product lifespan.

Action Plan: How to Reduce Emissions

Purchased Goods & Services (raw materials and components) are the second-largest contributor (approx. 19%), highlighting the impact of material choices. **Product Design Optimization:** Focus on significantly reducing energy consumption during the product's use phase and exploring low-carbon alternative materials.

Manufacturing Energy (Scope 2) contributes approximately 13%, driven by the energy intensity of production processes in China. **Supply Chain Engagement:** Collaborate closely with key suppliers to identify and implement GHG reduction initiatives, encouraging them to provide product-specific PCF data.

Renewable Energy Adoption: Increase the proportion of renewable energy utilized in the manufacturing facility in China to minimize Scope 2 emissions.

Circular Economy Initiatives: Expand and promote take-back programs and actively design for