carboncalcpcf.com

Product Carbon Footprint Dashboard

xprdssddym

Company: hidlkjpwht • **Standard:** GHG Protocol

29.96 kg CO2e / unit

Total Footprint

29.96 kg CO2e

Carbon Intensity

29.96 kg CO2e/unit

Top Material Hotspot

Aluminum Alloy

12.50 kg CO2e

Primary Emission Scope

Scope 3

(Materials & Use)

Lifecycle Stage Breakdown

Materials (Scope 3, Cat 1)	28.30 kg CO2e (55.08%)
Use Phase (Scope 3, Cat 11)	20.00 kg CO2e (38.93%)
Production (Scope 2)	2.25 kg CO2e (4.38%)
Logistics (Scope 3, Cat 4)	0.83 kg CO2e (1.62%)
End-of-Life (Scope 3, Cat 12)	-21.42 kg CO2e (Net Credit)

Material Carbon Impact Breakdown

Aluminum Alloy	12.50 kg CO2e (44.17%)
Lithium-ion Battery	6.00 kg CO2e (21.20%)
Silicon Chipset	5.00 kg CO2e (17.67%)
ABS Plastic	3.36 kg CO2e (11.87%)
Copper Wiring	1.20 kg CO2e (4.24%)
Cardboard Packaging	0.20 kg CO2e (0.71%)
User Manual	0.04 kg CO2e (0.14%)

Highlights & Hotspots

Material Acquisition (Scope 3, Cat 1) is the largest contributor at 28.30 kgCO2e, with Aluminum Alloy being a significant hotspot.

The **Use Phase (Scope 3, Cat 11)** contributes significantly with 20.00 kgCO2e, driven by product energy consumption over its 5-year lifespan.

A substantial **net credit of -21.42 kgCO2e** is achieved through strong End-of-Life recycling initiatives.

Action Plan: How to Reduce Footprint

Optimize Material Sourcing: Investigate and source lower-carbon intensity materials or components from verified suppliers.

Enhance Product Energy Efficiency: Implement design improvements to reduce energy consumption during the product's use phase.

Strengthen Circular Economy: Continue to expand and promote existing take-back programs and explore innovative recycling technologies.

Collect Primary Data: Focus on gathering more specific primary data for transport, energy mix of suppliers, and other high-impact categories.