

html

Product Carbon Footprint Dashboard

Product: kpmphgtglsv | Company: ytqqmxddqu

36.04 kg CO2e

carboncalcpcf.com

Total Footprint

36.04

kg CO2e / unit

Carbon Intensity

36.04

kg CO2e / unit

For 1.0 unit of kpmphgtglsv

Top Material Hotspot

5.0

kg CO2e from

Circuit Board

Primary Emission Scope

55.6%

from

Use of Sold Products (Scope 3)

Lifecycle Stage Breakdown

Materials (S3, C1)	22.5%
Production (S2)	6.8%
Logistics (S3, C4/9)	0.8%
Use Phase (S3, C11)	55.6%
End-of-Life (S3, C12)	-7.8%
Scope 1 (Direct)	0.0%

Material Carbon Impact

Circuit Board	61.7%
Battery Pack	14.8%
Main Casing	11.1%
Packaging	3.7%
Wiring Harness	2.5%

Key Highlights

- The 'Use of Sold Products' (Scope 3, Category 11) is the most significant emission hotspot, accounting for approximately 55.6% of the total PCF.
- 'Purchased Goods and Services' (Scope 3, Category 1), primarily from materials like the Circuit Board, represents the second largest impact at 22.5%.
- Net avoided emissions from End-of-Life treatment (-7.8%) demonstrate a significant circular economy benefit through effective recycling.

Recommendations for Reduction

- ✓ **Focus on Use Phase Optimization:** Investigate opportunities to reduce energy consumption during the product's lifespan through improved energy efficiency or extended durability.
- ✓ **Material Decarbonization:** Explore alternative, lower-carbon materials for key components, especially the Circuit Board and Battery Pack, and engage with suppliers on their decarbonization efforts.
- ✓ **Enhance Circularity:** Strengthen take-back programs and increase collection rates to maximize avoided emissions from virgin material production through improved recycling.