

carboncalcpcf.com

fomznrrok Carbon Footprint Dashboard

Total Product Carbon Footprint: **21.616 kg CO2e**

Total Footprint

21.616 kg CO2e

per functional unit

Carbon Intensity

21.616 kg CO2e/unit

for fomznrrok

Top Material Hotspot

Li-ion Battery

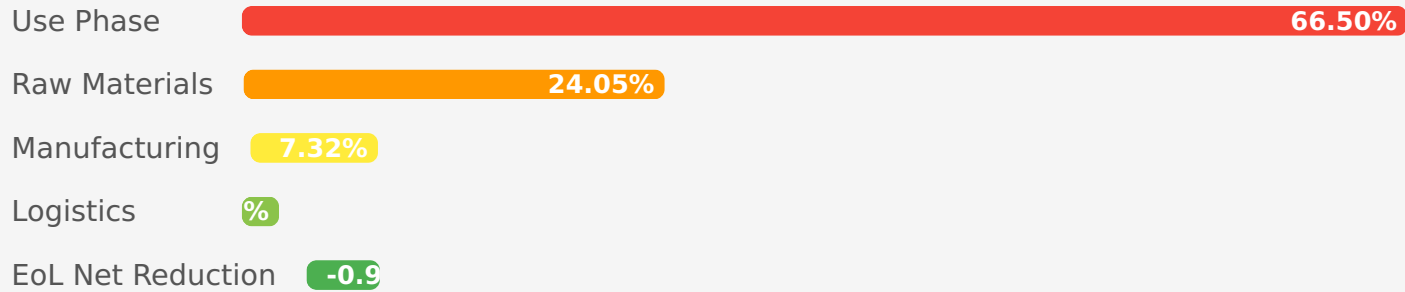
55.30% of material impact

Primary Emission Scope

Use Phase (S3)

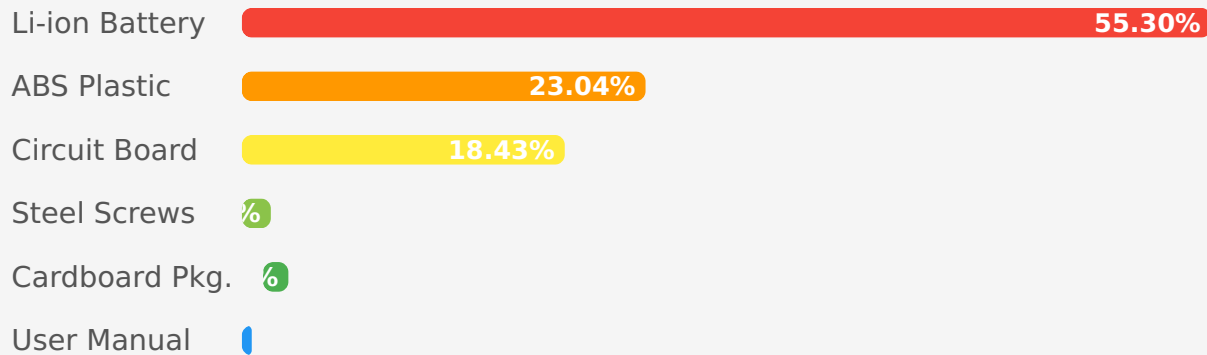
69.49% of total footprint

Lifecycle Emission Breakdown



Note: Lifecycle breakdown percentages are based on positive emissions. End-of-Life (EoL) represents a net reduction.

Material Carbon Impact



Percentages reflect contribution to total material emissions (5.425 kg CO₂e).

Highlights

- The product's **Use Phase** is the dominant emission hotspot, accounting for nearly 70% of the total footprint.
- **Raw Materials** contribute significantly, with the Lithium-ion battery and ABS plastic being key areas for optimization.
- **End-of-Life circular programs** provide a notable carbon reduction, demonstrating the value of refurbishment initiatives.

How to Reduce the Carbon Footprint of fomznrxrok

- **Enhance Use Phase Energy Efficiency:** Redesign fomznrxrok to significantly lower its energy consumption during its 5-year lifespan.
- **Optimize Material Sourcing:** Investigate and procure lower-carbon alternatives for high-impact components like Lithium-ion batteries and ABS plastic.
- **Increase Renewable Energy in Manufacturing:** Further increase the percentage of renewable energy used in the Chinese manufacturing facility beyond 50%.
- **Strengthen Circular Economy Initiatives:** Expand and promote robust take-back and refurbishment programs for fomznrxrok.
- **Improve Data Granularity:** Collect more primary, activity-based data directly from the supply chain to enhance accuracy and audibility of Scope 3 reporting.