jmygifzlpl Carbon Footprint Dashboard

Product: jmygifzlpl (1.0 unit)

Company: pxlifkxhxo

Standard: GHG Protocol

3.46 kg CO2e

(Factory-Gate PCF)

34.54 kg CO2e

(Full Lifecycle PCF)

powered by carboncalcpcf.com

Total Factory-Gate Footprint

3.46 kg CO2e

per 1.0 unit of jmygifzlpl

Carbon Intensity

3.46 kg CO2e/unit

Factory-Gate (Cradle-to-Gate)

Top Material Hotspot

Lithium-ion Battery

0.80 kg CO2e (30.8% of materials)

Primary Emission Scope

Scope 3 Upstream

Highlights & Key Insights

The **Use Phase** is the overwhelming emission hotspot (approx. 89.8% of full lifecycle PCF), primarily due to product energy consumption over its 5-year lifespan.

Within the "factory_gate" boundary, **Material Acquisition and Pre-processing** accounts for the largest share (approx. 75.1%).

The **Lithium-ion Battery** and **PCB Board** are the most carbon-intensive components, contributing significantly to material-related emissions.

How to Reduce jmygifzlpl's Carbon Footprint

- ✓ Focus on **energy-efficient design** to drastically reduce use-phase emissions, potentially by seeking lower power consumption components or optimizing software for efficiency.
- ✓ Investigate **sustainable material alternatives** for high-impact components like Lithium-ion batteries and PCB boards, or collaborate with suppliers to source lower-carbon versions.
- ✓ Promote **renewable energy use** by end-consumers through product design (e.g., compatibility with smart home energy management) and consumer education.
- ✓ Enhance **circularity initiatives**, leveraging the existing product take-back program and aiming for higher recyclability percentages (currently 80%) to minimize End-of-Life impacts.
- ✓ Optimize **supply chain logistics**, specifically for inbound materials, by exploring more efficient transport modes or localized sourcing where feasible.