

Product Carbon Footprint for ellwgjewjp

carboncalcpcf.com

Total PCF: 12.97 kg CO2e

Total Lifecycle Footprint

12.97 kg CO2e

Carbon Footprint per Unit

12.97 kg CO2e/unit

Top Material Hotspot

Circuit Board
0.75 kg CO2e

Primary Emission Scope

Scope 3
8.71 kg CO2e

Key Highlights

The **use phase (7.0 kg CO2e)** and **manufacturing energy (4.32 kg CO2e)** are the dominant contributors to ellwgjewjp's carbon footprint.

Materials (1.82 kg CO2e), particularly the circuit board and lithium battery, represent a significant upstream impact.

A high recyclability rate and circular programs result in a **net carbon benefit (-0.23 kg CO₂e)** at the end-of-life stage, offsetting disposal emissions.

Recommended Action Plan

Enhance energy efficiency during the product's use phase to significantly reduce its largest impact.

Increase the utilization of renewable energy sources in manufacturing operations in China.

Explore lower-carbon alternatives for high-impact materials, especially electronic components, through supply chain engagement.

Optimize logistics for distribution to minimize transport emissions, focusing on modes and routes.

kg
CO2e

Lifecycle Stage Breakdown

Use Phase	
Manufacturing	
Materials	
Distribution	
EoL Benefit	

Percentages show contribution relative to the sum of positive emissions. End-of-Life (EoL) represents a net reduction due to circular programs.

Material Carbon Impact (Top)

Circuit Board	
Lithium Battery	
Plastic Casing	
Other Materials	

Percentages show contribution to total material emissions (1.82 kg CO2e).