carboncalcpcf.com

Product Carbon Footprint for zjxggutxoz

Summary for 1.0 unit · System Boundary: factory_gate

Total Carbon Footprint

125.474 kgCO2e

Total Footprint

125.474 kgCO2e

per unit

Carbon Intensity

125.474 kgCO2e

per functional unit

Top Emission Source

Use Phase

105.85 kgCO2e (84%)

Key Highlights

Lifecycle Stage Breakdown

Stage	Value
Use Phase	105.850 kgCO2e (83.28%)
Logistics	12.721 kgCO2e (10.01%)
Upstream Materials	8.100 kgCO2e (6.37%)
Manufacturing	0.435 kgCO2e (0.34%)

Note: End-of-Life phase contributes a credit of -1.632 kgCO2e/unit, reducing the overall footprint.

- The **Use Phase** is the dominant emission hotspot, contributing approximately 84% (105.85 kgCO2e) of the total PCF, primarily due to continuous energy consumption over the product's lifespan.
- **Downstream Transportation (Last-Mile Delivery)** is a significant contributor, accounting for roughly 10% (12.50 kgCO2e) of the total footprint, emphasizing the impact of logistics.
- **Raw Material Acquisition** represents about 6.5% (8.10 kgCO2e) of the total, with Aluminum Casing and Electronic Components being the largest material-related contributors.
- **High renewable energy usage (50%)** in manufacturing helps mitigate Scope 2 emissions, which are relatively low at 0.435 kgCO2e.

Action Plan: Reducing the Footprint

- **Optimize Use Phase Energy Efficiency:** Focus on reducing the product's energy consumption during its active lifespan through design improvements or more efficient power management.

Report prepared by jqrpztukyp, Senior Sustainability Consultant for uywxmvhukv. Adhering to GHG Protocol & 2026 LSR Update requirements. Data generated: May 21, 2026.