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carboncalcpcf.com

Product Carbon Footprint Analysis

Product: ypdxmehjwo

Company: qnqimytium

Consultant: ykxyqnfvzm

Generated Date: May 27, 2026

Total PCF: 18.29 kg CO2e

Key Performance Indicators

Total Footprint

18.29 kg CO2e

Per 1 unit of ypdxmehjwo

Carbon Intensity

18.29 kg CO2e/unit

Functional Unit: 1.0 unit

Top Material Hotspot

Purchased Goods

7.54 kgCO2e (41.2% of gross)

Key Highlights & Insights

- Purchased Goods and Services (Materials) contribute **41.2%** of gross emissions, with Circuit Board and Plastic Casing identified as major contributors.
- The Use of Sold Products accounts for a significant **39.0%** of gross emissions, underscoring the importance of product energy efficiency during its 3-year lifespan.
- ✓ Manufacturing Energy (Scope 2) represents **26.2%** of gross emissions, despite a 30% renewable energy share, indicating further decarbonization opportunities in production.
- ✓ End-of-Life programs provide a notable carbon credit of **-1.86 kgCO2e** (10.2% reduction of total gross emissions), validating the effectiveness of circularity initiatives.

Recommended Action Plan for Reduction

- **Material Decarbonization:** Engage with suppliers to procure lower-carbon materials for the Circuit Board, Plastic Casing, and Battery components.
- **Enhanced Energy Efficiency in Use:** Invest in R&D to optimize power consumption modes and integrate smart energy management features for ypdxmehjwo.
- **Increase Renewable Energy Sourcing:** Expand the percentage of renewable electricity used in manufacturing facilities in China beyond the current 30%.
- **Optimize Logistics:** Explore shifting transport modes from road to rail or sea where feasible and consolidate shipments for improved load factors.
- **Expand Circularity Initiatives:** Enhance existing take-back programs to further increase recyclability rates and consider incorporating repair and refurbishment models.