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carboncalcpcf.com

**Product: exnvnyqsi**  
**Total PCF: 27.884 kg CO2e**

Company: yeoddxqou | Consultant: grxzxpfve | Standard: GHG Protocol

Total Product Footprint

**27.884**

kg CO2e

Carbon Intensity

**27.884**

kg CO2e / unit

Top Material Hotspot

**Aluminum Casing**

3.75 kg CO2e (54.6% of materials)

Primary Emission Scope

**Scope 3**

89.24% of total PCF

## Emissions by Lifecycle Stage

Materials Acquisition	6.87 kg CO2e
Manufacturing / Production	3.05 kg CO2e
Transportation	0.24 kg CO2e
Use Phase	20.00 kg CO2e
End-of-Life (Net Avoided)	-2.27 kg CO2e

\*Percentages indicate contribution to the absolute total footprint value.

## Emissions by GHG Scope

Scope 1 (Direct)	0.00 kg CO2e (0.00%)
Scope 2 (Purchased Energy)	3.00 kg CO2e (10.76%)
Scope 3 (Value Chain)	24.88 kg CO2e (89.24%)

## Key Highlights

- The Use Phase is the largest contributor to the PCF (20.0 kg CO2e), emphasizing operational energy efficiency.
- Materials Acquisition, particularly aluminum casing and battery pack, is the second-largest hotspot (6.87 kg CO2e).
- Scope 3 emissions dominate the footprint (89.24%), highlighting the importance of supply chain engagement.

## Recommended Action Plan

- **Optimize Use Phase Efficiency:** Focus on improving the product's energy efficiency during its operational lifespan.
- **Sustainable Material Sourcing:** Explore alternative materials with lower embodied carbon or increase recycled content.
- **Transition to Renewable Energy in Manufacturing:** Increase renewable energy usage at the China-based facility beyond 50%.
- **Enhance Circularity:** Expand take-back programs, boost recyclability, and explore repair/refurbishment options.