

**Product Carbon Footprint Dashboard for
hnyrsnzsxx**

**15.401 kg
CO₂e**

Total Cradle-to-Grave Footprint
(1.0 unit)

Carbon Footprint per Unit

15.401 kg CO₂e

For 1.0 unit of hnyrsnzsxx

Primary Emission Scope

Scope 3 (Value Chain)

Dominant contributor to total emissions.

Top Material Hotspot

Lithium-ion Battery

Contributing 1.200 kg CO₂e.

Production Country

China

Manufacturing location for hnyrsnzsxx.

Highlights: Key Emission Hotspots

- **Use Phase Dominance:** The product's operational lifespan contributes nearly half of its total carbon footprint (48.7%), primarily due to electricity consumption.
- **Manufacturing Energy Impact:** Purchased electricity for manufacturing in China accounts for 34.1% of emissions, highlighting the importance of renewable energy integration.
- **Material Acquisition Significance:** The production of raw materials, especially the Lithium-ion Battery and Printed Circuit Board, makes up a substantial 18.5% of the footprint.

Recommendations for Carbon Footprint Reduction

1. **Enhance Use Phase Efficiency:** Prioritize R&D for more energy-efficient product design and encourage end-users to power the product with renewable energy sources.
2. **Decarbonize Production:** Increase the share of renewable energy in manufacturing facilities in China beyond the current 50% through on-site generation or Power Purchase Agreements.
3. **Sustainable Sourcing:** Collaborate with suppliers to procure lower-carbon materials, increase recycled content, and explore bio-based alternatives, particularly for high-impact components like batteries and PCBs.
4. **Strengthen Circularity:** Further develop take-back and recycling programs to maximize material recovery and explore options for refurbishment or remanufacturing to extend product lifecycles.