

Product Carbon Footprint Dashboard

Product: yndqisjkxs by gnnfkzqttq

System Boundary: factory_gate | Production Country: China | Standard: GHG Protocol

158.24 kgCO₂e

Total Product Footprint (per unit)

Total Footprint

158.24 kgCO₂e

Carbon Intensity

158.24 kgCO₂e/unit

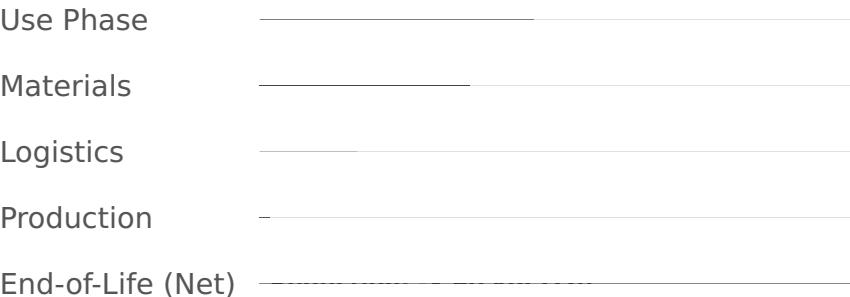
Top Material Hotspot

Steel Frame (22.00 kgCO₂e)

Primary Emission Scope

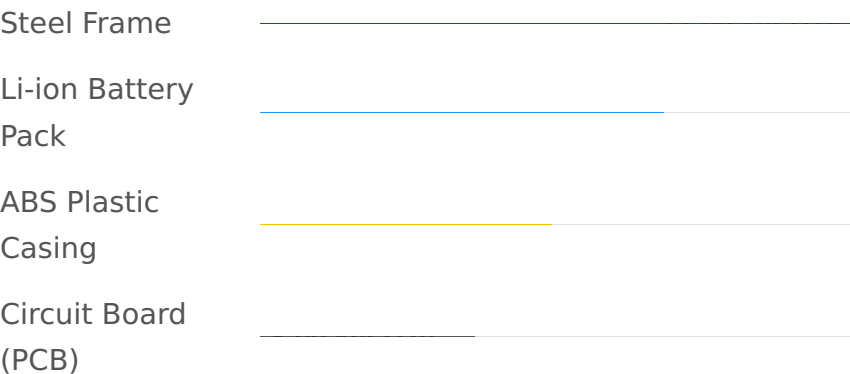
Lifecycle Stage Breakdown

Percentage contribution of each stage to the product's total positive carbon footprint.



Material Impact Insights

Top materials contributing to the product's carbon footprint.



Highlights & Hotspots

- The **Use Phase** is the largest contributor, accounting for 75.00 kgCO2e/unit (approx. 46% of positive emissions), emphasizing the impact of energy consumption during the product's lifespan.
- Material Acquisition** follows as a significant hotspot, contributing 57.59 kgCO2e/unit, highlighting the importance of sustainable sourcing and material selection.
- Downstream Transportation**, primarily last-mile delivery, adds 25.00 kgCO2e/unit to the footprint, pointing to logistics as a key area for emission reduction.

Action Plan: How to Reduce the Carbon Footprint

1. **Optimize Use Phase Efficiency:** Implement design improvements to reduce energy consumption during the product's lifespan and explore user-facing renewable energy incentives.
 2. **Enhance Material Sustainability:** Source lower-carbon alternatives for high-impact materials and increase recycled or bio-based content, aligning with LSR standards for biogenic carbon.
 3. **Decarbonize Logistics:** Optimize transportation routes, consolidate shipments, and explore alternative lower-emission transport modes like rail or electric vehicles.
 4. **Strengthen Circularity Initiatives:** Expand and promote take-back programs to increase material recovery and invest in design-for-disassembly to facilitate recycling and reuse.
 5. **Improve Production Energy Mix:** Increase renewable energy usage at the China production facility and reduce overall energy intensity through process optimization.
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