

dijsuxztyq Carbon Footprint Overview

 **22.81** kgCO₂e/
unit

Total Footprint

22.81 kgCO₂e/unit

Carbon Intensity

22.81 kgCO₂e/unit

Top Material Hotspot

Aluminum Casing

(3.5 kgCO₂e)

Primary Emission Scope

Scope 3

(20.01 kgCO₂e)

Lifecycle Stage Breakdown

Use Phase	53.6%
Materials & Upstream	33.6%
Production (S1 & S2)	12.0%
Downstream Transport	0.7%
End-of-Life (Net Removal)	-0.50 kgCO ₂ e

Material Carbon Impact

Aluminum Casing	3.5 kgCO ₂ e
Circuit Board	2.0 kgCO ₂ e
Lithium-Ion Battery	1.5 kgCO ₂ e
Plastic Housing	0.6 kgCO ₂ e
Copper Wire	0.2 kgCO ₂ e

Key Insights & Hotspots

- **Use Phase (Scope 3, Category 11):** Largest contributor, accounting for approx. 55% of the total gross emissions, mainly due to product energy consumption.
- **Materials (Scope 3, Category 1):** Significant impact (approx. 34%), particularly from Aluminum Casing and Lithium-Ion Battery production.
- **Manufacturing (Scope 2):** Purchased electricity for production represents a notable share (approx. 12%), despite assumed renewable energy usage.

Recommendations for Reduction

- ✓ **Optimize Use Phase:** Enhance product energy efficiency and explore compatibility with lower-carbon energy sources for operation.
- ✓ **Source Sustainable Materials:** Prioritize suppliers with lower embodied carbon for key components like batteries and aluminum; explore recycled or bio-based alternatives.
- ✓ **Increase Renewable Energy:** Further boost renewable energy procurement or on-site generation at manufacturing facilities in China.
- ✓ **Strengthen Circular Economy:** Expand refurbishment and component reuse programs to maximize material recovery and reduce virgin material demand.
- ✓ **Optimize Logistics:** Implement more carbon-efficient transport modes and refine logistics networks for reduced transport distances.

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