

myddtwxwwz

Product Carbon Footprint Dashboard

136.65 kg CO2e

Total Cradle-to-Grave Footprint

136.65 kg CO2e

Total Footprint

136.65 kg CO2e / unit

Carbon Intensity

Aluminum Casing

Top Material Hotspot

Scope 3 Downstream

Primary Emission Scope

Emissions by Scope

100%

- Scope 1: 0.00%
- Scope 2: 1.65%
- Scope 3 Upstream: 6.75%
- Scope 3 Downstream: 91.01%

Material Carbon Impact (Upstream)

Aluminum Casing	5.00 kg CO2e
Circuit Board	2.50 kg CO2e
ABS Plastic Cover	0.70 kg CO2e
Copper Wire	0.50 kg CO2e
Packaging (Cardboard)	0.36 kg CO2e

Key Highlights & Hotspots

- **Use Phase Dominance:**** The product's energy consumption during its use phase accounts for an overwhelming 91.01% of the total carbon footprint, making it the primary hotspot.
- **Raw Material Impact:**** Upstream activities, particularly the sourcing and processing of raw materials like Aluminum, contribute significantly (6.63%) to the overall footprint.
- **Renewable Energy Advantage:**** While manufacturing energy contributes a smaller portion (1.65%), the company's 75% renewable energy usage significantly mitigates what could be a higher Scope 2 impact.

Action Plan: How to Reduce Impact

- ****Prioritize Use Phase Optimization:**** Invest in R&D to significantly improve the energy efficiency of "myddtwxwwz" during its operational lifespan.
- ****Material Circularity:**** Explore opportunities to integrate materials with lower embedded carbon, such as higher recycled content for aluminum and plastics, and consider lightweighting options.
- ****Renewable Energy Expansion:**** Continue to increase the percentage of renewable energy utilized in manufacturing processes to further reduce Scope 2 emissions.

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Accounting Standard: GHG Protocol | System Boundary: factory_gate (cradle-to-grave equivalent reported)