

html

# Carbon Footprint Dashboard: fdswutzwne

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**112.15 kg CO<sub>2</sub>e**

Total Product Footprint

Total Footprint

**112.15**

kg CO2e per unit

Carbon Intensity

**112.15**

kg CO2e/unit

Top Material Hotspot

**Circuit Board**

15.0 kg CO2e (67.87% of materials)

Primary Emission Scope

**Scope 3**

Use Phase dominant (78%)

## Highlights & Key Findings

- • The **Use Phase** is the dominant emission hotspot, contributing approximately **78%** of the total product carbon footprint due to energy consumption over the product's lifespan.
- • **Raw Material Acquisition**, particularly the circuit board and aluminum casing, accounts for a significant **20%** of the total footprint, emphasizing upstream supply chain impacts.
- • While production energy emissions are relatively low (2%), this is partly due to an illustrative **75% renewable energy usage**. A shift away from renewables would significantly increase this impact.

## Recommendations for Carbon Reduction

1. **Enhance Energy Efficiency (Use Phase):** Prioritize redesigning the product for lower energy consumption during its use and educating users on efficient operation.
2. **Decarbonize Material Sourcing:** Explore alternative, lower-carbon materials and increase recycled content. Collaborate with suppliers to reduce emissions in material production.
3. **Optimize Production Energy Mix:** Continue to increase the share of renewable energy in manufacturing and implement energy-saving measures at production facilities.
4. **Strengthen Circularity:** Expand and promote take-back and refurbishment programs to maximize material recovery and extend product lifespans beyond initial use.