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# Product Carbon Footprint for nigtfodjxq

Total Product Carbon Footprint (PCF)

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**22.68 kg CO2e**

Total Footprint

## Lifecycle Stage Breakdown Key Highlights

**22.68 kg CO2e**

Use Phase

10.00 kg CO2e (43.5%)

• **Use Phase Dominance:** The product's energy consumption over its 5-year lifespan is the largest contributor, accounting for 43.5% of the total footprint.

Production Phase

9.00 kg CO2e (39.1%)

• **Production Emissions:** Manufacturing in China, despite 40% renewable energy use, contributes significantly (39.7%) due to the high carbon intensity of the Chinese grid.

Material Acquisition

3.87 kg CO2e (16.8%)

**45.35 kg CO2e/kg**

• **Material Hotspot:** The production of the **Aluminum Casing** is a critical material impact, responsible for the majority of the material acquisition emissions.

Transport

0.00 kg CO2e (0%)

End-of-Life

-0.00 kg CO2e (0%)

(Offset)

Top Material Hotspot

**Aluminum Casing**

3.00 kg CO2e (77.5% of material impact)