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Product Carbon Footprint for jynpxzzrif

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76.492 kgCO2e

Total PCF (per unit)

Total Footprint

76.492 kgCO2e

Per 1.0 unit of jynpxzzrif.

Carbon Intensity

76.492 kgCO2e/unit

GHG Protocol Standard, Cradle-to-Grave.

Lifecycle Stage Breakdown (Positive Emissions)

Use Phase	62.05 kgCO2e (79.97%)
Material Acquisition & Pre-processing	12.75 kgCO2e (16.43%)
Production (Purchased Electricity)	2.482 kgCO2e (3.20%)
Upstream Transportation	0.31 kgCO2e (0.40%)
End-of-Life (Carbon Credit)	-1.10 kgCO2e

Top Material Hotspot

Aluminium Casing

Contributing 6.0 kgCO2e to material emissions.

Primary Emission Scope

Scope 3 (Downstream)

Key Emission Hotspots

- Use Phase constitutes the largest portion (79.97%) of the PCF, driven by the product's energy consumption over its lifespan.
- Material Acquisition & Pre-processing (16.43%) is a significant contributor, with materials like Aluminium Casing showing high impact.
- Production emissions (3.20%) contribute, even with 60% renewable energy usage at the manufacturing stage.

Recommendations for Reduction

- Optimize Use-Phase Energy Efficiency: Invest in product design for significantly lower energy consumption during usage.
- Increase Renewable Energy Adoption: Explore further opportunities to increase renewable energy sourcing at manufacturing facilities.
- Material Optimization: Investigate opportunities for lighter materials, increased recycled content, and lower inherent carbon footprint alternatives.
- Enhance Circularity: Leverage and expand existing circular/take-back programs to maximize recycling and material recovery, further increasing avoided emissions at End-of-Life.