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Product Carbon Footprint: ryolmgygwu

Total PCF: 34.886 kg CO₂e

Total Footprint

34.886

kg CO2e per unit

Carbon Intensity

37.51

kg CO2e / kg product

Top Material Hotspot

Aluminum Frame

3.0 kg CO2e (46.5% of material impact)

Emission Hotspots

- The Use Phase is the most significant contributor (28.500 kg CO₂e), primarily due to electricity consumed over the product's lifespan.
- Materials Acquisition & Pre-processing contributes substantially (6.446 kg CO₂e), driven by high-impact materials like Aluminum and Lithium-ion Battery.
- Scope 3 emissions dominate the overall footprint, accounting for 34.458 kg CO₂e, highlighting the importance of value chain decarbonization.

Recommendations for Impact Reduction

- Optimize Use Phase Efficiency: Focus on designing for ultra-low energy consumption during the 'ryolmggygwu' operational lifespan.
- Decarbonize Supply Chain: Collaborate with material suppliers to source lower-carbon alternatives or materials produced with renewable energy.
- Enhance Circularity: Leverage high recyclability and strengthen product take-back programs to maximize material recovery and re-use.
- Monitor Production Energy: Continuously monitor and increase the actual share of renewable energy in production facilities in China.