

Product Carbon Footprint: xrzhiuensi

Total Carbon Footprint

82.99 kg CO₂e

Functional Unit

1.0 unit

Product: xrzhiuensl

System Boundary

Cradle-to-Grave

Expanded from factory_gate

Production Country

China

GHG Protocol Standard

Carbon Intensity

20.24 kg CO₂e/kg

Based on 4.1 kg total weight

Carbon Footprint Breakdown

✓ **Material Optimization:** Explore opportunities to reduce the quantity of high-impact materials, investigate low-carbon alternatives, or increase the recycled content of Aluminium Alloy and Silicon Wafer.

✓ **Energy Efficiency & Renewables:** Continue investing in renewable energy procurement and on-site generation at manufacturing facilities, and improve the energy efficiency of production processes.

✓ **Product Design for Longevity & Efficiency:** Focus on designing products that are more energy-efficient during the use phase and consider modular designs for easier repair and upgrades to extend lifespan.

✓ **Enhance Circular Economy Initiatives:** Strengthen take-back and recycling programs, and explore partnerships to ensure high recovery and recycling rates for product components at end-of-life.

✓ **Supply Chain Engagement:** Collaborate with suppliers to identify and implement emissions reduction strategies upstream, encouraging them to provide product-specific primary data for more accurate Scope 3 reporting.

Generated by carboncalcpcf.com on May 22, 2026. Data based on GHG Protocol standards with illustrative values.