

Product Carbon Footprint for mdtvnlxwv

Company: yelygknijy | Standard: GHG Protocol | Boundary: factory_gate

Total PCF

54.25 kgCO₂e

Total Carbon Footprint

54.25 kgCO₂e

Carbon Intensity (per unit)

54.25 kgCO₂e/unit

Top Material Hotspot

Lithium-ion Battery

Primary Emission Scope

Scope 3, Category 1 (Materials)

Key Highlights

- Material Acquisition & Pre-processing (Scope 3, Category 1) is the dominant emission hotspot, contributing 56.3% of the total PCF.
- The Use Phase (Scope 3, Category 11) is the second largest contributor, accounting for 36.2% of emissions, highlighting product energy efficiency.
- Lithium-ion Battery and Aluminium Casing are the most impactful individual components within the material acquisition phase.

Recommendations for Reduction

- **Material Optimization:** Explore alternative low-carbon materials, increase recycled content, or redesign high-impact components like Lithium-ion Batteries and Aluminium Casings.
- **Energy Efficiency in Use:** Implement design improvements to significantly reduce the product's energy consumption during its 5-year operational lifespan.
- **Enhance Circularity:** Maximize the existing take-back programs for refurbishment and remanufacturing to extend product life and minimize virgin material demand.