Product Carbon Footprint Dashboard

Product: slvomqsdtg

Standard: GHG Protocol

Total Carbon Footprint

37.723 kgCO2e/unit

carboncalcpcf.com

Total Footprint

37.723 kgCO2e

Per 1.0 unit of slvomqsdtg

Carbon Intensity

62.87 kgCO2e/kg

Based on 0.6 kg product weight

Top Material Hotspot

Lithium-ion Battery

Contributing 2.25 kgCO2e

Primary Emission Scope

Lifecycle Stage Breakdown

Raw Materials (Scope 3)	13.07% (5.200 kgCO2e)
Manufacturing (Scope 1, 2, 3)	4.97% (1.980 kgCO2e)
Logistics (Scope 3)	63.11% (25.117 kgCO2e)
Use Phase (Scope 3)	18.84% (7.500 kgCO2e)
End-of-Life (Scope 3)	Net Credit (-2.074 kgCO2e)

*Percentages are based on positive lifecycle emissions. End-of-Life provides a net credit.

Material Impact Insights

Top Contributing Materials (within Raw Materials)

Lithium-ion Battery	43.27% (2.25 kgCO2e)
Circuit Board (PCB)	38.46% (2.00 kgCO2e)
Plastic Casing (ABS)	13.46% (0.70 kgCO2e)

Emission Hotspots

- **Transportation Dominance:** Last-mile delivery significantly inflates this category, accounting for a vast majority of the total footprint.
- **Use Phase Energy:** The product's 5-year lifespan contributes substantially to emissions through energy consumption.
- **Key Raw Materials:** Lithium-ion batteries and circuit boards are the most carbon-intensive components.

Recommendations for Reduction

- **Optimize Logistics:** Implement strategies for more efficient last-mile delivery and consolidated shipments.
- **Enhance Energy Efficiency:** Design for lower energy consumption during the use phase and promote renewable energy for users.
- **Source Sustainably:** Prioritize lower-carbon materials and engage suppliers for more transparent and sustainable sourcing.
- **Boost Circularity:** Expand take-back and recycling programs to maximize material recovery and reduce virgin material demand.

Report generated May 26, 2026. Data based on GHG Protocol standards and illustrative parameters. For internal use only.