

# Product Carbon Footprint for kgntprslx

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**59.50** kg CO<sub>2</sub>e  
Total Carbon Footprint (per unit)

Total Footprint

**59.50 kg CO<sub>2</sub>e**

Carbon Intensity

**59.50 kg CO<sub>2</sub>e/unit**

Top Material Hotspot

**Lithium-ion Battery Pack**

Primary Emission Scope

**Scope 3**

## Lifecycle Stage Breakdown

|                      |             |        |
|----------------------|-------------|--------|
| Material Acquisition | <div></div> | 36.64% |
| Production           | <div></div> | 1.87%  |
| Transport            | <div></div> | 22.52% |
| Use Phase            | <div></div> | 37.81% |
| End-of-Life          | <div></div> | 1.16%  |

## Material Carbon Impact

|                       |             |        |
|-----------------------|-------------|--------|
| Li-ion Battery Pack   | <div></div> | 57.34% |
| Recycled Aluminum     | <div></div> | 17.20% |
| ABS Plastic (Virgin)  | <div></div> | 16.51% |
| Printed Circuit Board | <div></div> | 8.26%  |
| Recycled Cardboard    | <div></div> | 0.69%  |

## Key Highlights & Hotspots

- The **\*\*Use Phase\*\*** (37.81%) and **\*\*Material Acquisition\*\*** (36.64%) are the most significant contributors to the product's carbon footprint, jointly accounting for over 74% of total emissions.

## Recommendations for Reduction

- ✓ **\*\*Optimize Use Phase Energy:\*\*** Explore energy-efficient design, longer product lifespan, and promote renewable energy use by consumers.
- ✓ **\*\*Sustainable Material Sourcing:\*\*** Investigate alternative, lower-carbon battery technologies or suppliers for the Li-ion battery pack.
- ✓ **\*\*Streamline Logistics:\*\*** Seek to optimize outbound and last-mile delivery routes, consider lower-emission transport modes, or regionalize distribution.
- ✓ **\*\*Circular Economy Initiatives:\*\*** Leverage the existing take-back program to maximize refurbishment and recycling rates, further reducing ~~End-of-Life~~ impacts.

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