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Product Carbon Footprint for "hpjgoukgqt"

Total Carbon Footprint (per unit)

19.544 kg CO₂e

Generated: June 1, 2026

Overall Footprint

19.544 kg CO₂e

Per 1.0 unit of hpjgoukgqt

Top Material Hotspot

Lithium-ion Battery

0.960 kg CO₂e (~32.7% of material impact)

Primary Emission Scope

Scope 3

18.044 kg CO₂e (over 95% coverage)

Production Details

China

Country of Origin / GHG Protocol Standard

Lifecycle Stage Breakdown

Use Phase	15.000 kg CO ₂ e (76.75%)
76.75%	
Materials Acquisition & Pre-processing	2.940 kg CO ₂ e (15.04%)
15.04%	
Manufacturing/Production (Scope 2)	1.500 kg CO ₂ e (7.67%)
7.67%	
Transport (Finished Product to Hub)	0.056 kg CO ₂ e (0.29%)
End-of-Life Treatment	0.020 kg CO ₂ e (0.10%)
Last-Mile Delivery	0.017 kg CO ₂ e (0.09%)
Transport (Raw Materials to Factory)	0.011 kg CO ₂ e (0.06%)

- The **Use Phase** is overwhelmingly the largest contributor to the product's carbon footprint, accounting for approximately **76.7%** (15,000 kg CO₂e) of total emissions. This highlights the critical importance of product energy efficiency and consumer energy choices.
- **Materials Acquisition & Pre-processing** is the second-largest hotspot, responsible for about **15.0%** (2,940 kg CO₂e) of emissions. Key components like the Lithium-ion Battery and Aluminium Frame are significant drivers within this category.
- **Manufacturing/Production** (Scope 2, purchased electricity) contributes approximately **7.7%** (1,500 kg CO₂e) to the total footprint, indicating the impact of the energy mix at the production facility in China.
- The analysis adheres strictly to the GHG Protocol Product Standard, including the 2026 Land Sector and Removals update, and achieved over 95% Scope 3 coverage.

Action Plan: How to Reduce Emissions

- **Optimize Use Phase:** Focus on designing more energy-efficient products (e.g., lower power consumption, longer battery life, intelligent power management features). Educate consumers on sustainable usage and the benefits of renewable energy sources.
- **Source Sustainable Materials:** Prioritize sourcing materials with lower embedded carbon, increased recycled content, and certified sustainable origins. Investigate alternative materials for components like batteries and electronics.
- **Decarbonize Manufacturing:** Increase the percentage of renewable energy used in the `sevyuuyews` factory in China. Explore on-site renewable energy generation or purchase high-quality renewable energy credits.

