

dikpermhah Carbon Footprint Dashboard

Total PCF

121.82 kg CO2e

Per Unit Intensity

121.82 kg CO2e/unit

Primary Scope

Scope 3
(118.94 kg CO2e)

Top Material Hotspot

Aluminum
Casing
(3.0 kg CO2e)

Lifecycle Stage Breakdown (Gross Emissions)

Use Phase	105.00 kg CO2e (85.23%)
Downstream Transport	10.00 kg CO2e (8.12%)
Materials Acquisition	4.72 kg CO2e (3.83%)
Manufacturing (Scope 2)	2.88 kg CO2e (2.34%)
Upstream Transport	0.60 kg CO2e (0.49%)
End-of-Life (Net Avoidance)	-1.38 kg CO2e (Net Reduction)

Emission Scope Breakdown (Net PCF)

Scope 3	118.94 kg CO2e (97.6%)
Scope 2	2.88 kg CO2e (2.4%)
Scope 1	0.00 kg CO2e (0.0%)

Emission Hotspots & Highlights

- Use Phase (Category 11) is the largest contributor at 105.0 kg CO₂e, driven by product energy consumption over its 7-year lifespan.
- Downstream Transportation (Category 9) contributes 10.0 kg CO₂e, mainly due to last-mile delivery and product distribution.
- Materials Acquisition (Category 1) accounts for 4.72 kg CO₂e, with Aluminum Casing being a significant material hotspot.

Recommendations for Reduction

- Enhance Energy Efficiency in Use: Focus on R&D to drastically reduce the product's energy consumption during its lifespan.
- Optimize Downstream Logistics: Explore more efficient last-mile delivery, utilizing electric vehicles or consolidating shipments.
- Sustainable Material Sourcing: Investigate lower-carbon materials, recycled content, or less energy-intensive production processes.
- Strengthen Circular Economy Initiatives: Expand take-back programs to maximize product lifespan and material recovery.