

Product Carbon Footprint: **lfguruvll**

TOTAL PCF (kg CO2e)
32.18

Total Footprint

32.18

kg CO2e per unit

Carbon Intensity

32.18

kg CO2e / unit

Top Material Hotspot

Aluminum Casing

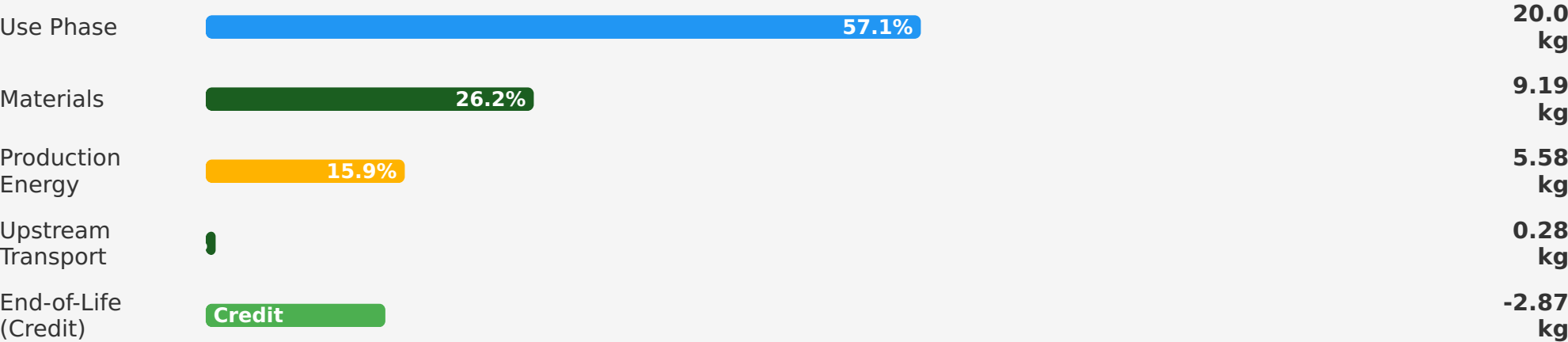
6.0 kg CO2e

Primary Emission Scope

Scope 3

Use Phase & Materials

Lifecycle Emissions Breakdown



Highlights

- Use Phase energy consumption is the largest contributor, accounting for approximately 62.2% of gross emissions, highlighting the impact of product operation.
- Raw material production, particularly Aluminum Casing and Circuit Board, forms a significant 28.6% of upstream emissions.
- Manufacturing energy in China is a notable contributor (approximately 17.3% of gross emissions), even with 40% renewable energy usage at the facility.

Material Carbon Impact

Aluminum Casing	65.3%	6.0 kg
Circuit Board	16.3%	1.5 kg
Plastic Enclosure	11.4%	1.05 kg
Copper Wire	3.4%	0.4 kg
Packaging	0.5%	0.24 kg

How to Reduce Your Carbon Footprint

- ❑ Optimize Use Phase: Implement design improvements, energy-efficient components, or smart power management for reduced energy consumption during product use.
- ❑ Enhance Circularity: Strengthen take-back programs and explore higher recycled content in materials; design for easier disassembly and repair to maximize end-of-life credits.
- ❑ Increase Renewables: Target higher renewable energy usage in manufacturing facilities and collaborate with suppliers to promote clean energy in their operations.