

html

Product Carbon Footprint Dashboard

carboncalcpcf.com

24.59 kg CO₂e

Total PCF for stgnnuideo

Total Footprint

24.59 kg CO2e

for 1.0 unit of stggnuideo

Production Country

China

Manufacturing Location

Primary Hotspot

Use Phase

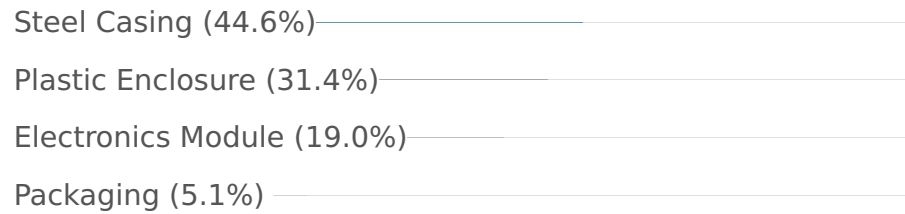
18.1 kg CO2e (73.6% of gross)

Accounting Standard

GHG Protocol

with 2026 LSR update

Carbon Footprint by Lifecycle Stage



Contribution of different materials to the total material acquisition footprint (3.95 kg CO₂e).

- Steel Casing: 1.76 kg CO₂e
- Plastic Enclosure: 1.24 kg CO₂e
- Electronics Module: 0.75 kg CO₂e
- Packaging (Cardboard): 0.20 kg CO₂e

Key Insights & Hotspots

The **Use Phase** is the single largest contributor to stgnnuideo's carbon footprint, accounting for approximately **73.6%** of gross emissions, totaling 18.1 kg CO₂e. This highlights energy consumption during product lifespan as a critical area for improvement.

Raw Material Acquisition, particularly steel and plastic components, represents the second major hotspot, contributing **3.95 kg CO₂e**. Prioritizing sustainable material sourcing is essential.

Manufacturing operations in China, despite illustrative renewable energy usage, contribute **3.10 kg CO₂e** due to grid intensity and energy demands. Further decarbonization of production energy is recommended.

