

html

carboncalcpcf.com

Product Carbon Footprint: qrxnnllsgp

1.0 unit · Factory Gate System Boundary (Cradle-to-Grave Calculation)

TOTAL PCF: 54.75 kg CO2e

Total Footprint (1 unit)

54.75

kg CO2e

Carbon Intensity

9.44

kg CO2e / kg product

Top Material Hotspot

Steel Casing

(10.0 kg CO2e)

Primary Emission Scope

Scope 3 Downstream

(60.54%)

Lifecycle Stage Breakdown

Use Phase	53.70%
Material Acquisition & Production	25.21%
Transportation (Upstream & Downstream)	5.79%
End-of-Life	3.18%
Manufacturing (Energy)	2.28%

Sum of all stages: 90.16% (remaining are negligible or aggregated)

Material Carbon Impact

Steel Casing	10.0 kg CO2e
Circuit Board	1.5 kg CO2e
Plastic Enclosure	1.5 kg CO2e
Wiring	0.8 kg CO2e

Total Material Impact: 13.8 kg CO2e

