

html

carboncalcpcf.com

## Product Carbon Footprint Dashboard

# txxgpqsykv (Smartwatch Pro)

**Total Footprint:** 7.655 kgCO<sub>2</sub>e

### Total Footprint

**7.655** kgCO<sub>2</sub>e

for 1.0 unit (factory\_gate)

### Carbon Intensity

**51.03** kgCO<sub>2</sub>e/kg

of product weight (0.15 kg)

## Top Material Hotspot

# PCB Assembly

1.20 kgCO<sub>2</sub>e (41.52% of materials)

## Primary Emission Scope

# Scope 3

7.055 kgCO<sub>2</sub>e (92.16% of total)

■ Materials (36.98%)

■ Production (7.68%)

■ Transport (0.06%)

■ Use Phase (55.28%)

## Lifecycle Stage Breakdown

Net End-of-Life resulted in 0.160 kgCO<sub>2</sub>e avoided emissions due to recycling programs.

## Material Carbon Impact

<u>PCB Assembly</u>	1.20 kgCO2e
<u>Lithium-ion Battery</u>	0.80 kgCO2e
<u>Stainless Steel Case</u>	0.35 kgCO2e
<u>Other Materials</u>	0.54 kgCO2e

## Key Highlights

The **Use Phase** is the largest contributor to the PCF (56.43%), mainly due to continuous energy consumption over its 3-year lifespan.

**Material Acquisition & Processing** (37.75%) is the second most significant hotspot, with PCB Assembly (1.20 kgCO2e) and Lithium-ion Battery (0.80 kgCO2e) being major drivers.

jpvrqfrxk's **circular programs**, including a battery take-back and refurbishment option, significantly contribute to avoided emissions at End-of-Life, reducing the overall footprint.

## How to Reduce Footprint

**Optimize Use Phase Efficiency:** Research and integrate lower power consumption components and develop energy-saving software features for the Smartwatch Pro.

**Sustainable Material Sourcing:** Prioritize suppliers with lower-carbon PCB and battery manufacturing processes, and explore increased recycled content for materials like plastics and metals in the Bill of Materials.

**Enhance Circularity:** Expand and promote existing take-back and refurbishment programs to maximize product lifespan and material recovery, further increasing avoided emissions.

**Renewable Energy Adoption:** Increase the percentage of renewable energy usage in jpvqrfrxk's production facilities and encourage key upstream suppliers to transition to renewable energy sources.

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Report for jpvqrfrxk by mmdytrznj. Adhering to GHG Protocol. Production Country: China.

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