

# SimOps Thermal Analysis

**Job:** L\_bracket  
**Date:** 2025-12-27 17:42

**SIMULATION STATUS: CRITICAL FAILURE**

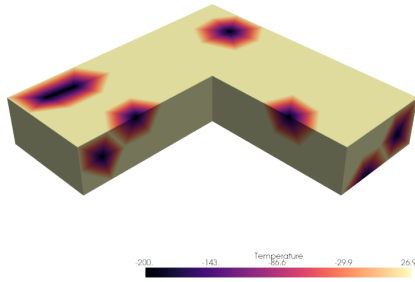
Metric	Value
Strategy Used	HighFi_Layered
Max Temperature	26.9 °C
Min Temperature	-200.1 °C
Range (Delta T)	227.0 °C
Mesh Elements	673
Solve Time	0.37 s

## Thermal Distribution Maps

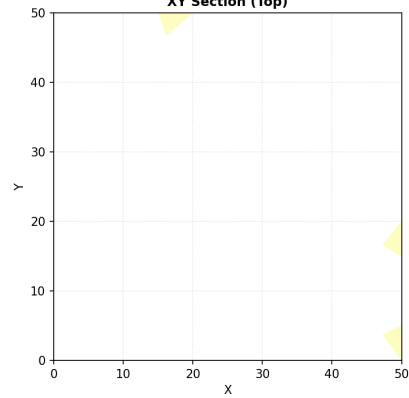
## Sim Results - L bracket

Material: Aluminum | Ambient: 20°C | Source: 100°C |  $h=25.0\text{ W/m}^2\text{K}$

3D Isometric View (Surface)



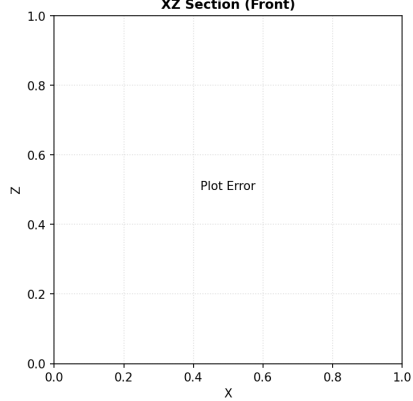
XY Section (Top)



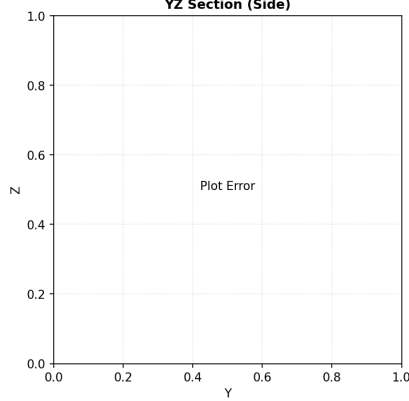
Temperature  
26.9  
-29.9  
-86.6  
-143.4  
-171.8  
-200.1

Temperature (°C)

XZ Section (Front)



YZ Section (Side)



Solver: CalculiX v2.21 (FEM) | Mesh: 673 Elements | Solve: 0.4s | Converged (dT < 0.1°C) | Flux: -0.9W

## Transient Response: L\_bracket

