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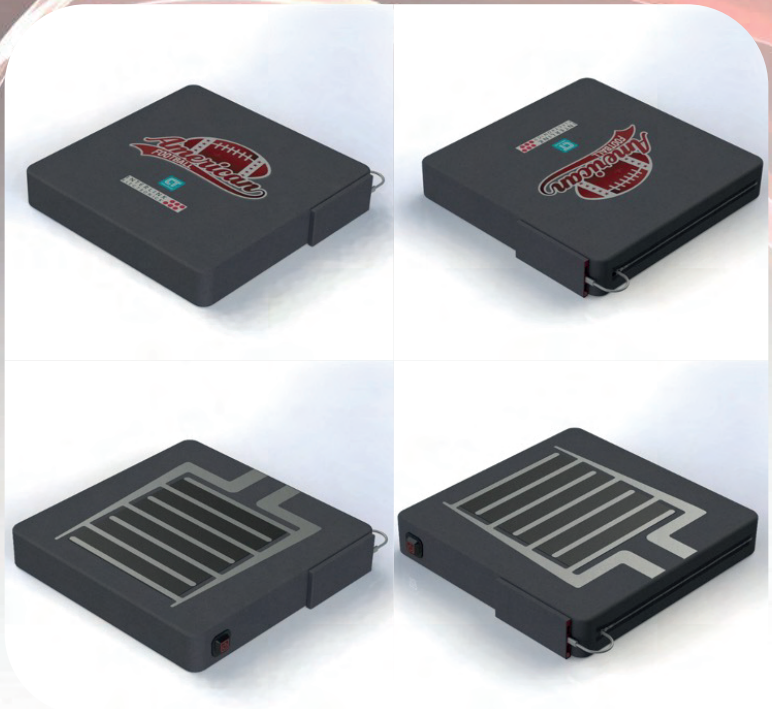
Heated Stadium Seat



Specification

- Dimensions: W=400mm, L=390mm, T=70mm
- Power: Powered using USB-C Power Delivery (PD) Compatible Power Bank.
- Adjustable temperature setting (High, Medium, Low).

Features

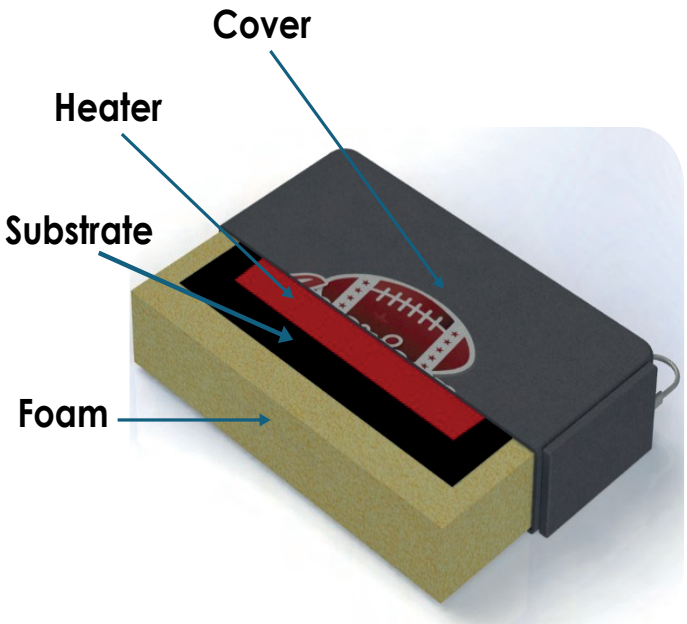
- Bespoke Design
- Washable
- Durable
- Energy Efficient
- Lightweight & Soft feel
- Customisable designs with team logos
- Size up to 900mm x 600mm

Thermal Performance

Power Density:

Input Voltage	Surface Power Density (mW/cm^2)
5V	16
7V	29
9V	46
12V	76

- Resistence: 4 Ω (nominal)
- Operating Voltage: 5V - 12V
- Current Draw: Maximum 3A



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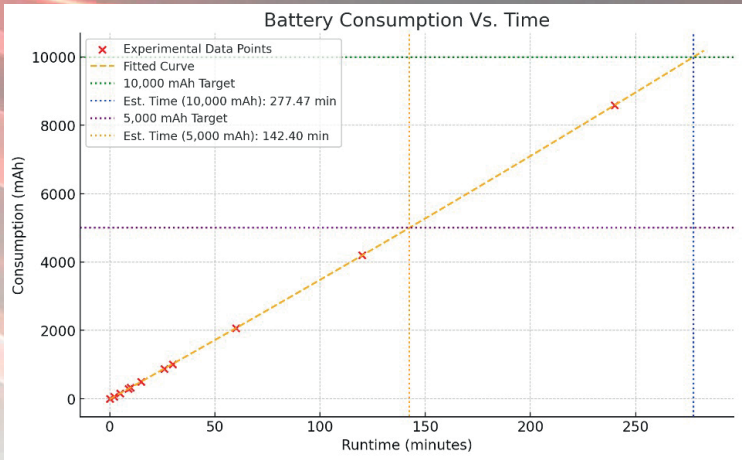
Battery Runtime Estimate

This analysis estimates the runtime of a battery based on experimental data (High Setting).
Voltage=9V, Current=2A, Power=18W
Estimated runtime for 10,000 mAh

- **Power Bank: 277 minutes (~4 hours 37 minutes).**

Estimated runtime for 5,000 mAh

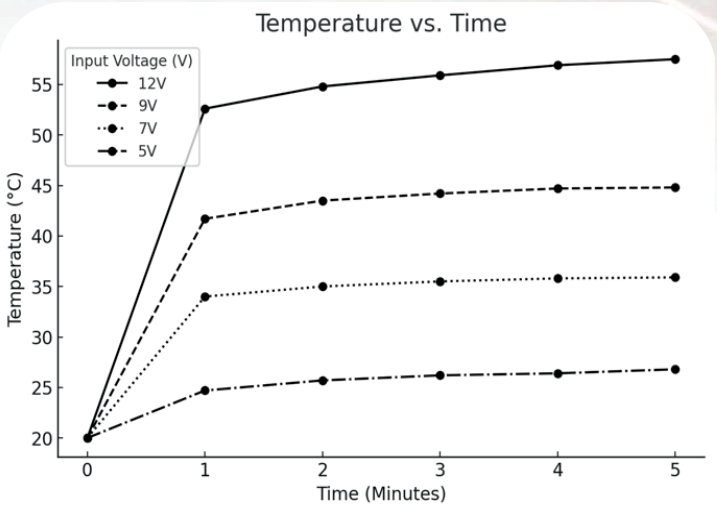
- **Power Bank:142 minutes (~2 hours 22 minutes).**

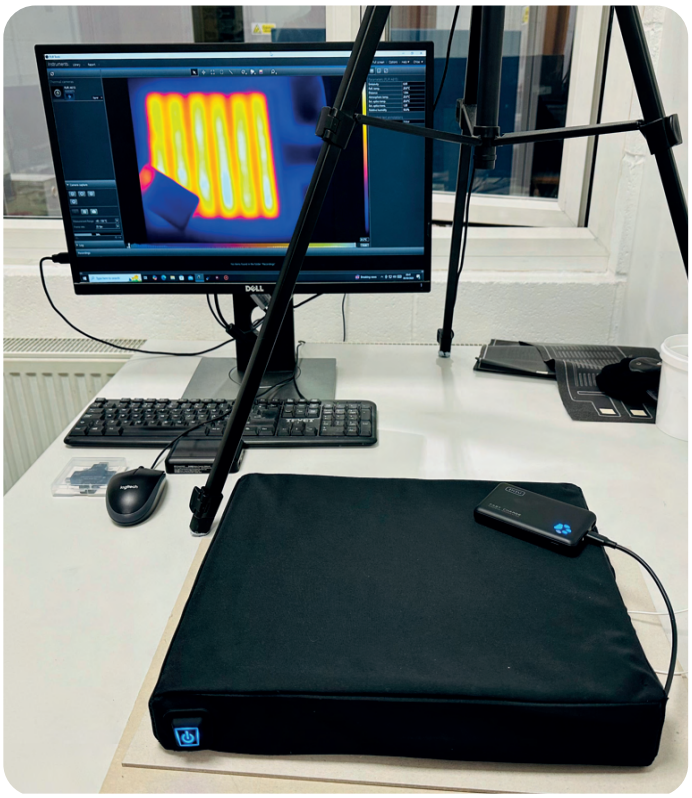


Electrical Performance

- **Total Heating Surface Area: 370cm²**
- **Typical Thickness: 70 Microns**
- **High: 47°C**
- **Medium: 42°C**
- **Low: 35°C**

Heating Rate vs Input Voltage:





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