



Thermal Energy Storage Panel **Q-Store**

Q-Store is a thermal energy storage panel that provides passive thermal management in a compact, reliable form factor.

Benefits include reduced maximum temperatures, more isothermal systems, and improved heat load sharing.

Leveraging phase change materials (PCMs), Q-Store includes an optimized PCM to panel mass, integrated thermal vias, customized geometries, and short lead times.





APPLICATIONS H

+ Low Earth Orbit (LEO) missions

+ Deep Space Missions

+ Planetary Missions



PARAMETERS +

Minimum Size

5.0 cm x 5.0 cm x 0.5 cm (or 2470 J)

Maximum Size

105 cm x 105 cm x 3.0 cm (or 6500 kJ)

Technology Readiness Level (TRL)

TRL 5 currently

Tailored control temperatures (-10°C to 61°C)

High thermal storage capacity

(215 to 250 J/g of wax)



MARKETS SERVED

+ Spaceflight applications



REDWIRESPACE.COM |@REDWIRESPACE |SALES@REDWIRESPACE.COM





