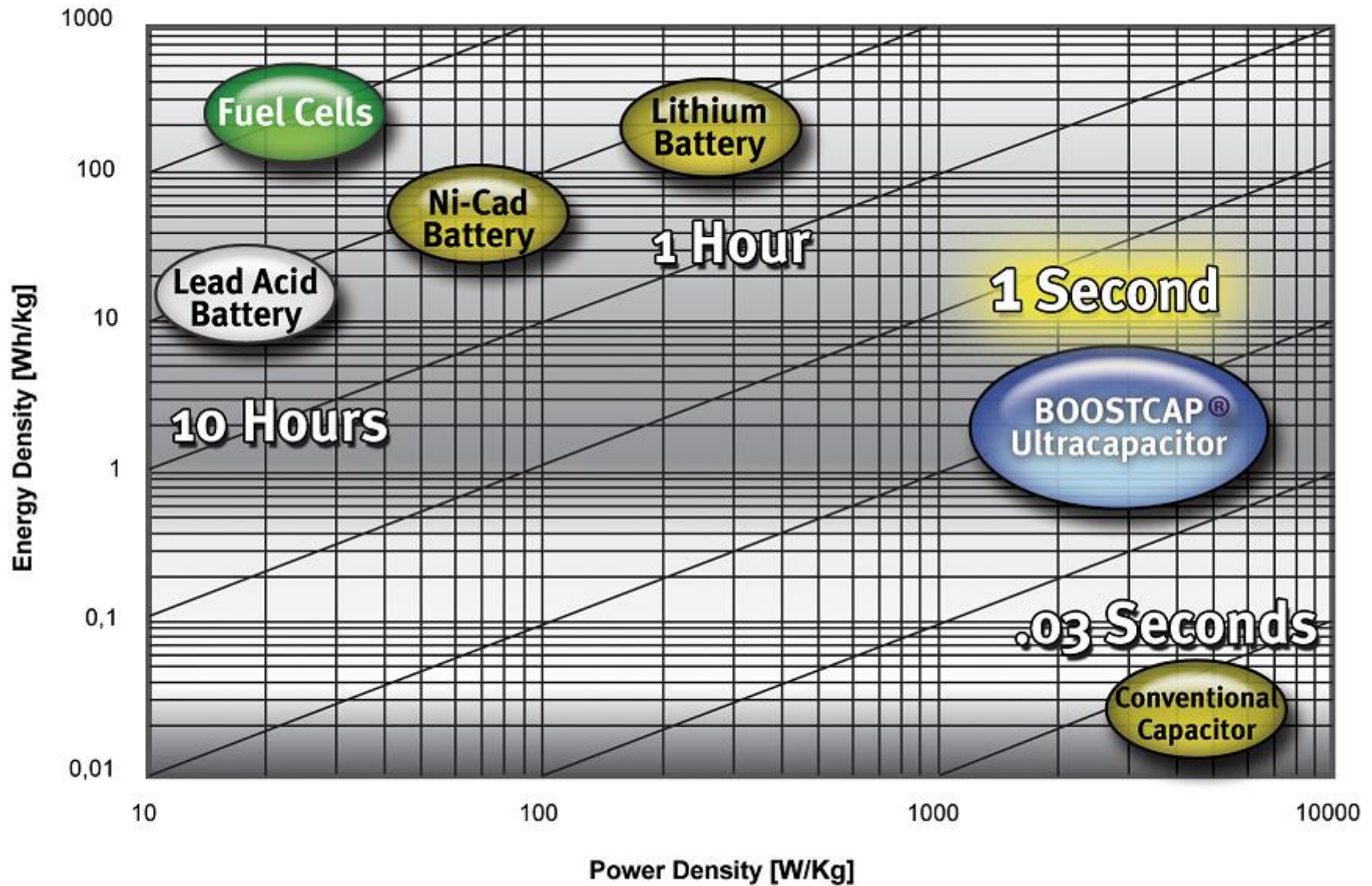


Ultracapacitor vs Battery



Ultracapacitor basics – Comparison to Battery

- The battery is for energy and long term voltage stability.
- The ultracapacitor is for short term, high power bursts.
- Time is the critical parameter

Attribute	Unit	Ultracap	Lithium	UC vs. Li
Power density	kW/L	10	3	+
Energy density	Wh/L	6	200	-
Cold Temperature	°C	<-40	~-20	+
Hot Temperature	°C	+65	+40	+
Rate capability	C/x	>1800	<40	+
SOC window	%	100	~50	+
Efficiency @ 40C	%	→98%	~95%	+