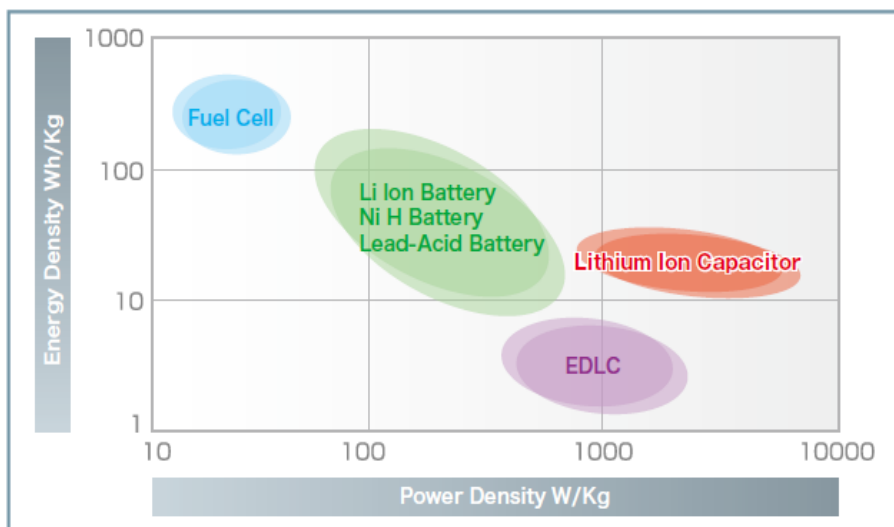


ULTIMO

Lithium Ion Capacitor

for advanced energy storage



Features of ULTIMO

- High working voltage
- High energy/power density
- Fast charge/discharge characteristic
- Wide operating temperature range
- Excellent durability/reliability
- Low self discharge
- Safe in its use

Combining advantages of both lithium ion battery and electric double layer capacitor

Laminated cell design



Prismatic cell design



ULTIMO

Laminated Lithium Ion Capacitor: typical properties

Characteristic		1100F ULR	2200F ULR	Conditions	
Operating temperature range		-30°C ~ 70°C	-30°C ~ 70°C		
Rated Voltage	Max.	3.8 V	3.8 V		
	Min.	2.2 V	2.2 V		
Initial characteristics	Capacitance		1100F	2200F	10CA CC discharge at 25°C
	ESR		1.0 mΩ	0.6 mΩ	at 1 kHz
	DC-IR		1.2 mΩ	0.7 mΩ	10CA CC discharge at 25°C
	Energy density	Weight	9 Wh/kg	10 Wh/kg	
Volume		17 Wh/L	18 Wh/L		
Temperature dependency	at -20°C	Capacitance ratio	90%	90%	10CA CC discharge relative to 25°C
	at +70°C		100%	100%	
Self discharge	Voltage reduction		<5%	<5%	3 months at 25°C
Dimensions		180x126x6.0mm	180x126x11.5mm		

The information contained herein may change without prior notice.

Prismatic Lithium Ion Capacitor: typical properties

Characteristic		2300F ULR	3300F LR	Conditions	
Operating temperature range		-30°C ~ 70°C	-30°C ~ 70°C		
Rated Voltage	Max.	3.8 V	3.8 V		
	Min.	2.2 V	2.2 V		
Initial characteristics	Capacitance		2300F	3300F	10CA CC discharge at 25°C
	DC-IR		0.7 mΩ	1.0 mΩ	10CA CC discharge at 25°C
	Energy density	Weight	8 Wh/kg	12 Wh/kg	
		Volume	15 Wh/L	20 Wh/L	
Dimensions		150x91.5x15.5mm	150x91.5x15.5mm		

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