



Lithium Ion Capacitor **ULTIMO**

Challenge for Low Carbon Society

~Aspire "Ultimate" storage device~

"ULTIMO" possesses the advantage of both lithium ion battery and electric double layer capacitor.

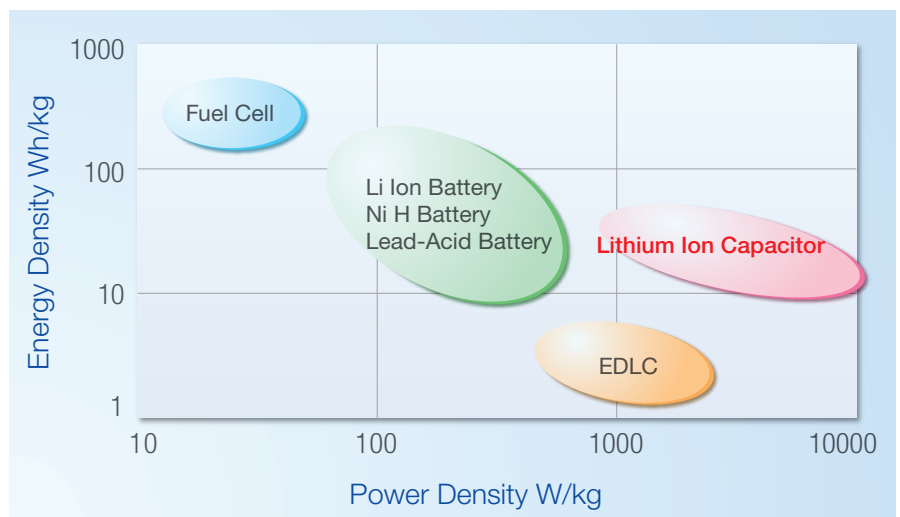
JM Energy is providing the solutions for your low carbon path by efficient energy use, smaller and lighter products in your various product design.



Feature of **ULTIMO**

- High working voltage
- High energy/power density
- Fast charge/discharge at high current
- Wide operation temp. range
- Excellent durability/reliability
- Small self discharge
- High safeness

Comparing Lithium Ion Capacitor with other electric storages



Typical properties

Measurement items	New Product				Conditions		
	Laminate		Prismatic				
	CLQ1100S1A	CLQ2200S2A	CPQ2300S	CPP3300S			
Range of Operating Temperatures	-30°C~70°C		-30°C~70°C				
Rated Voltage	Max.	3.8V	3.8V	3.8V	3.8V		
	Min.	2.2V	2.2V	2.2V	2.2V		
Initial Characteristics	Capacitance	1100F	2200F	2300F	3300F	Constant current discharge, 25°C	
	ESR	0.8mΩ	0.5mΩ	0.6mΩ	0.7mΩ	1kHz	
	DC-IR	1.2mΩ	0.7mΩ	0.7mΩ	1.0mΩ	Constant current discharge, 25°C	
	Weight E Density	10Wh/kg	10Wh/kg	8Wh/kg	13Wh/kg	Constant current discharge, 25°C	
Volume E Density	19Wh/L	19Wh/L	14Wh/L	20Wh/L			
Temp Dependence	-30°C 70°C	Capacitance ratio (vs 25°C)	80%	80%	85%	85%	Constant current discharge
			100%	100%	100%	100%	
Self Discharge Characteristics	Voltage Reduction	< 5%	< 5%	< 5%	< 5%	3 Months, 25°C	
Cell size		180×126×5.5mm	180×126×10.9mm	150.2 x 93.2 x 15.8mm	150.2 x 93.2 x 15.8mm	Without terminal	

※ The information contained herein may change without prior notice.

Contact