

Lithium Ion Capacitor

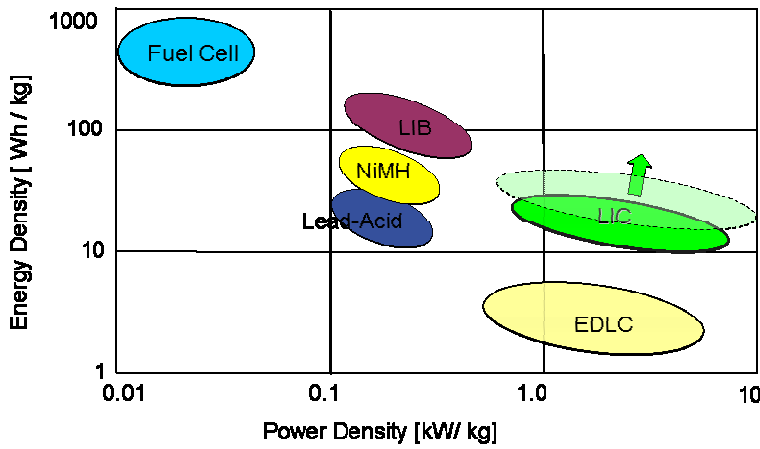
for advanced energy storage



ULTIMO Series



ULTIMO Features

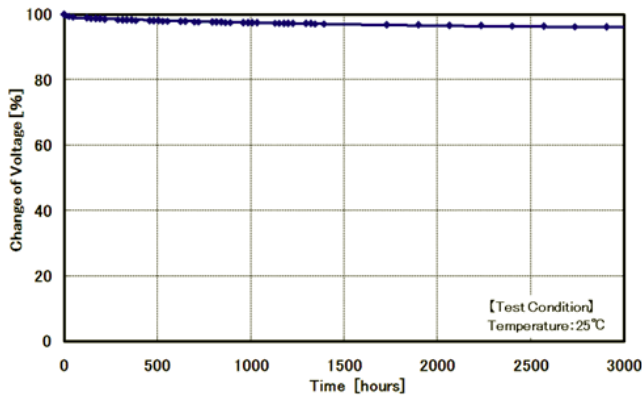


*Lithium Ion Capacitor
combines the high Energy
Density of Lithium ion
Battery with the high Power
Density of EDLC*

Thin laminated type lightweight device

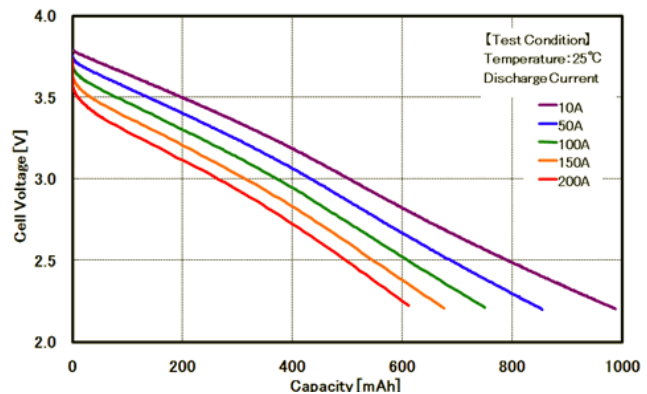


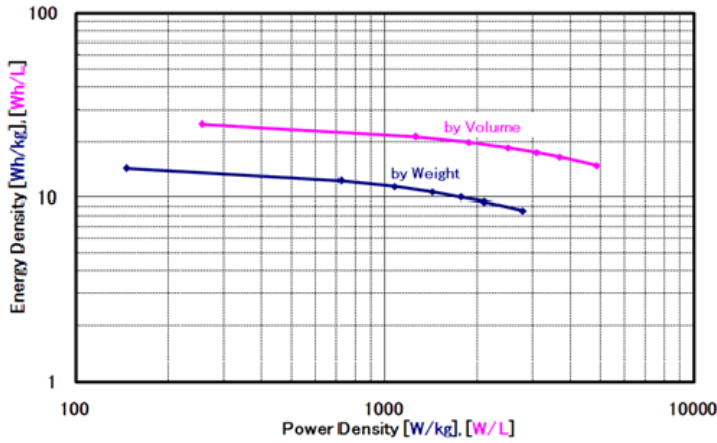
Parameter	Standard Type					Low ESR Type	Condition	
	Ultimo 500F	Ultimo 1000F	Ultimo 2000F	Ultimo 2000F LR				
Operating Temperature Range	°C	-20°C ~ 70	-20°C ~ 70	-20°C ~ 70	-20°C ~ 70			
Rated Voltage	Maximum	V	3,8	3,8	3,8	3,8		
	Minimum	V	2,2	2,2	2,2	2,2		
Initial Characteristics	Capacitance	F	550	1100	2200	2200	10 CA, CC discharge at 25°C	
	DC-IR	mΩ	7,5	4,5	2,3	1,5	10 CA, CC discharge at 25°C	
	ESR	mΩ	3,9	2,8	1,4	1,0	1kHz	
	Energy Density	by Weight	Wh/kg	15	12	14	11	10 CA, CC discharge at 25°C
By Volume		Wh/L	26	21	25	19	10 CA, CC discharge at 25°C	
Temperature performance	-20°C	from 25°C	%	75	75	75	75	10 CA, CC discharge
	-70°C	from 25°C	%	105	105	105	105	10 CA, CC discharge
Heat Resistance	from Initial Capacitance	%	90	90	90	90	90	3.8V, 70°C, 1000 hours
Cycle test performance	from Initial Capacitance	%	90	90	90	90	90	100CA, CC discharge, 25°C, 100K Cycles
Self discharge	Δ Voltage	%	<5	<5	<5	<5	<5	3 months, 25°C
Dimensions	mm		66 x 52 x 9	138 x 106 x 4.5	138 x 106 x 9	138 x 106 x 10.5		



Low self-discharge

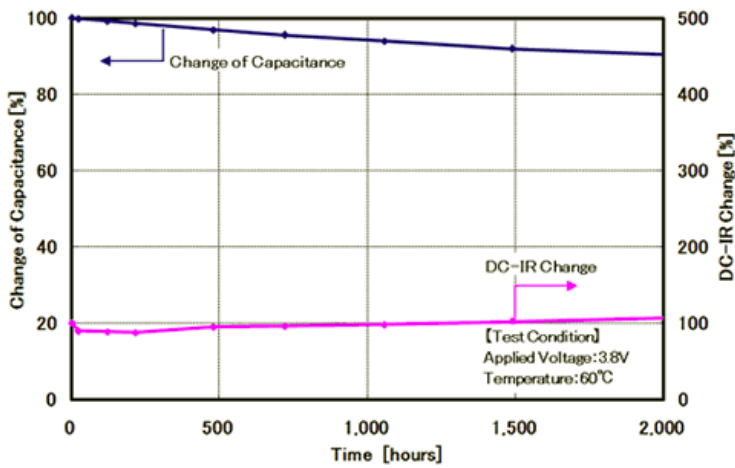
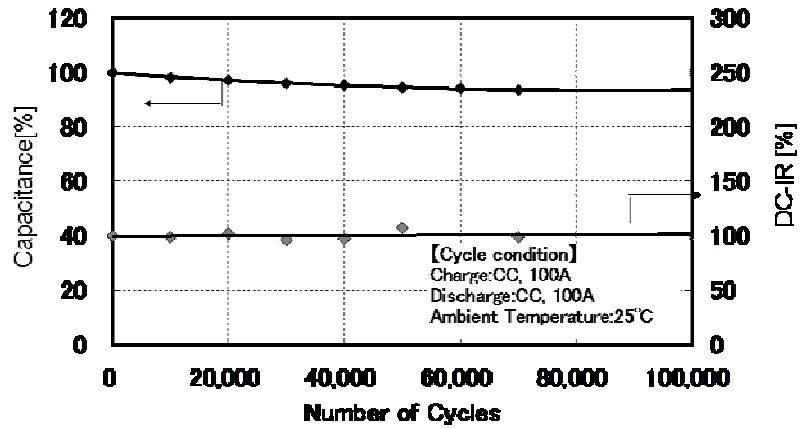
Quick charge/discharge





High Energy and Power Density

Long Cycle Life



Excellent High-Temperature Performance

JM Energy Corporation

The world's first plant for commercial-scale production of lithium ion capacitors was inaugurated by JM Energy on November 10, 2008 in Yamanashi, Japan. In the meantime, commercial production of the ULTIMO product platform has taken off.

In Europe, the ULTIMO series are marketed and fully supported by **JSR Micro N.V.**, located in Leuven, Belgium. JSR Micro N.V. is a subsidiary of JSR Corporation, with headquarters in Tokyo, Japan.

Inquiries on lithium ion capacitors can be directed to:

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www.jmenergy.co.jp



Yamanashi plant, Japan



About JSR

JSR Corporation is a multinational company employing over 5000 people and is a leading materials supplier in a variety of technology driven markets. We are a research-based company focusing on strategic partnerships with key innovators and market leaders in the industry to give them a unique competitive advantage based on innovation, quality and cost.



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