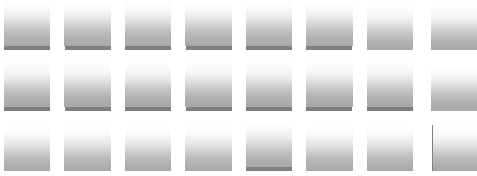
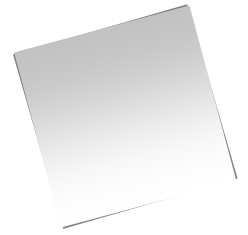


Always with our Customer

Electric Double Layer Capacitor

# LS Ultracapacitor

Next-generation Energy Storage of Low Resistance and Great Reliability



## Data Sheet



## About LS Cable Ltd.

LS Cable is the flagship company of LS group which was divided from LG group in 2003 to concentrate our specialized industry. LS group is focusing on industrial system, electric power, energy and electronic components.

LS Cable is No. 1 cable maker in Korea and creating new business particularly in component and materials industry like Ultracapacitor. LS Cable makes its best to accomplish the vision, 'Your No.1 Creative Partner' and be one of the world leaders with high technology and best level of service.

## About LS Ultracapacitor

LS Ultracapacitor is one of promising energy storage device like fuel cell and advanced rechargeable batteries. LS Ultracapacitor can complement advanced rechargeable batteries and conventional capacitor in terms of power and energy density. Furthermore, wide operating temperature (-40 °C ~ 60 °C) and high reliability of LS Ultracapacitor enable to use in various applications.

## Notes

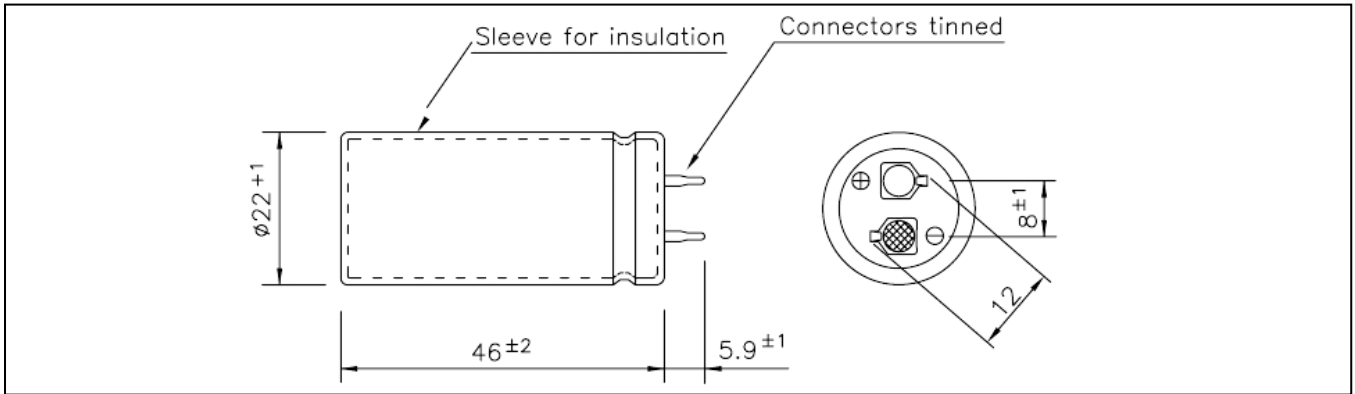
- Do not reverse polarity.
- Do not overcharge.
- Do not open.
- Do not put into fire.
- Do not deform terminals.
- Use capacitors according to operating temperature.

Electric Double Layer Capacitor  
**LS Ultracapacitor**

**High Voltage Series – 100F / 2.8V**



**Dimension**



**Specifications**

Item	LS Ultracapacitor		Standard	
Rated Capacitance	F	100	Constant current discharge	
Capacitance Tolerance	%	-10 / +10		
Rated Voltage, $V_R$	V	2.8		
Leakage Current	mA	< 2.5	12hrs, 25°C	
Internal Resistance (ESR)	AC	m $\Omega$	8	1kHz
	DC	m $\Omega$	11	
Specific Energy Density	Gravimetric	Wh/kg	4.73	
	Volumetric	Wh/L	6.23	
Operating Temperature	°C	-40 ~ 60		
Storage Temperature	°C	-40 ~ 70		
Cycle Life (25°C, $V_R$ )	cycles	500,000	$\Delta C < 30\%$ decrease, ESR < 200% increase	
Life Time (25°C, $V_R$ )	year	10	$\Delta C < 30\%$ decrease, ESR < 200% increase	
Dimension	mm	$\Phi 22 \times L 46$		
Weight	g	23		
Volume	ml	17		

**LS Cable Ltd.**

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