

LS Ultracapacitor Cells

New-generation Energy Storage Devices with Great Power and Great Reliability

2.7V Radial Type Cell 2.8/3.0V Lug & Snap-in Type Cell



Specifications

Series	Part No.	Capacitance	Rated Voltage	Max. ESR (DC)	Max. Current Non-repeated (Calculated value)	Leakage Current	Max. Stored Energy	Weight	Operating Temperature Range	Type	Dimension
Radial Type	LSUC 002R7R 0003F EA	3F	2.7V	80mΩ	3A	<0.007mA	0.003Wh	0.0014kg	-40~65°C	Radial	Φ08 X L20mm
	LSUC 002R7R 0005F EA	5F	2.7V	60mΩ	5A	<0.010mA	0.005Wh	0.0021kg	-40~65°C	Radial	Φ10 X L20mm
	LSUC 002R7R 0010F EA	10F	2.7V	45mΩ	9A	<0.023mA	0.010Wh	0.0033kg	-40~65°C	Radial	Φ10 X L30mm
	LSUC 002R7R 0025F EA	25F	2.7V	25mΩ	20A	<0.045mA	0.025Wh	0.0073kg	-40~65°C	Radial	Φ16 X L25mm
	LSUC 002R7R 0033F EA	33F	2.7V	20mΩ	26A	<0.060mA	0.033Wh	0.010kg	-40~65°C	Radial	Φ18 X L31mm
	LSUC 002R7R 0050F EA	50F	2.7V	15mΩ	38A	<0.075mA	0.051Wh	0.013kg	-40~65°C	Radial	Φ18 X L40mm
Snap-in & Lug Type	LSUC 002R8S 0100F EA	100F	2.8V	9mΩ	74A	<0.3mA	0.10Wh	0.023kg	-40~65°C	Snap-in	Φ22 X L46mm
	LSUC 002R8S 0120F EA	120F	2.8V	9mΩ	81A	<0.4mA	0.13Wh	0.023kg	-40~65°C	Snap-in	Φ22 X L46mm
	LSUC 002R8L 0320F EA	320F	2.8V	2mΩ	273A	<1mA	0.34Wh	0.078kg	-40~65°C	Lug	Φ35 X L61mm
	LSUC 002R8L 0350F EA	350F	2.8V	3.2mΩ	231A	<1mA	0.38Wh	0.072kg	-40~65°C	Lug/Snap-in	Φ35 X L61mm
	LSUC 002R8L 0400F EA	400F	2.8V	3mΩ	255A	<1mA	0.43Wh	0.080kg	-40~65°C	Lug/Snap-in	Φ35 X L66mm
	LSUC 002R8L 0450F EA	450F	2.8V	3mΩ	268A	<1mA	0.49Wh	0.088kg	-40~65°C	Lug/Snap-in	Φ35 X L71mm
	LSUC 003R0S 0100F EA	100F	3.0V	9mΩ	79A	<0.3mA	0.12Wh	0.023kg	-40~65°C	Snap-in	Φ22 X L46mm
	LSUC 003R0L 0380F EA	380F	3.0V	3.2mΩ	257A	<1mA	0.47Wh	0.072kg	-40~65°C	Lug/Snap-in	Φ35 X L61mm
	LSUC 003R0L 0430F EA	430F	3.0V	3mΩ	282A	<1mA	0.53Wh	0.080kg	-40~65°C	Lug/Snap-in	Φ35 X L66mm
	LSUC 003R0L 0480F EA	480F	3.0V	3mΩ	295A	<1.2mA	0.60Wh	0.088kg	-40~65°C	Lug/Snap-in	Φ35 X L71mm
Snap-in & Lug Type	LSUC 002R8L 0600F EA	600F	2.8V	3.2mΩ	288A	<1.3mA	0.65Wh	0.090kg	-40~65°C	Lug/Snap-in	Φ35 X L71mm

Cylindrical Type Cell

Specifications



Series	Part No.	Capacitance	Rated Voltage	Max. ESR (DC)	Max. Current Non-repeated (Calculated value)	Leakage Current	Max. Stored Energy	Weight	Operating Temperature Range	Type	Dimension
Cylindrical Type	LSUC 002R7C 0650F EA	650F	2.7V	0.57mΩ	640A	<1.5mA	0.65Wh	0.200kg	-40~65°C	Cylindrical	Φ60 X L151.5mm
	LSUC 002R7C 1200F EA	1200F	2.7V	0.33mΩ	1160A	<2.7mA	1.21Wh	0.280kg	-40~65°C	Cylindrical	Φ60 X L174mm
	LSUC 002R7C 1500F EA	1500F	2.7V	0.28mΩ	1426A	<3.0mA	1.51Wh	0.320kg	-40~65°C	Cylindrical	Φ60 X L185mm
	LSUC 002R7C 2000F EA	2000F	2.7V	0.27mΩ	1753A	<4.0mA	2.02Wh	0.380kg	-40~65°C	Cylindrical	Φ60 X L102mm
	LSUC 002R7C 3000F EA	3000F	2.7V	0.23mΩ	2396A	<5.0mA	3.03Wh	0.515kg	-40~65°C	Cylindrical	Φ60 X L138mm
	LSUC 02R85C 3400F EA	3400F	2.85V	0.23mΩ	2719A	<8.0mA	3.83Wh	0.515kg	-40~65°C	Cylindrical	Φ60 X L138mm
	LSUC 003R0C 3000F EA	3000F	3.0V	0.23mΩ	2663A	<5.0mA	3.75Wh	0.515kg	-40~65°C	Cylindrical	Φ60 X L138mm

LS Ultracapacitor Modules

New-generation Energy Storage Devices with Great Power and Great Reliability



Specifications

Part No.	Capacitance	Rated Voltage	ESR (DC)	Max. Continuous Current ($\Delta T = 40^{\circ}\text{C}$)	Leakage Current ⁽¹⁾	Energy Density	Weight	Balancing	Monitoring	Operating Temperature Range	Dimension
LSUM 016R8L 0058F EA	58F	16.8V	22m Ω	20A	<11mA	3.2Wh/kg	0.7kg	Active or Passive	-	-40 ~ 65 $^{\circ}\text{C}$	L245 x W47 x H76.6mm
LSUM 162R4L 0015F EA	15.5F	162.4V	110m Ω	12A	<32mA	3.0Wh/kg	18.5kg	Passive	Temperature (PTC)/ Over Voltage	-40 ~ 65 $^{\circ}\text{C}$	L684 x W202 x H183.5mm
LSUM 168R0L 0005F EA	5.8F	168V	240m Ω	12A	<25mA	3.5Wh/kg	6.5kg	Passive	Temperature (NTC)/ Half Voltage Terminal	-40 ~ 65 $^{\circ}\text{C}$	L235 x W367 x H79mm
LSUM 0380R8L 0002F EA	2.5F	380.8V	650m Ω	12A	<12mA	2.7Wh/kg	18.4kg	Passive	Temperature (PTC)/ Over Voltage	-40 ~ 65 $^{\circ}\text{C}$	L750 x W191 x H163mm
LSUM 016R2C 0250F EA AG	250F	16.2V	2m Ω	150A	<3mA	2.3Wh/kg	3.9kg	Active or Passive	Temperature (NTC)	-40 ~ 65 $^{\circ}\text{C}$	L311 x W166 x H70mm
LSUM 016R2C 0500F EA	500F	16.2V	1.7m Ω	200A	<5mA	3.3Wh/kg	5.6kg	Active or Passive	Temperature (NTC)	-40 ~ 65 $^{\circ}\text{C}$	L672 x W416.2 x H175.9mm
LSUM 016R2C 0500F EA AG	500F	16.2V	1.7m Ω	200A	<5mA	3.1Wh/kg	5.9kg	Active or Passive	Temperature (NTC)	-40 ~ 65 $^{\circ}\text{C}$	L470 x W166 x H70mm
LSUM 032R4C 0250F EA	250F	32.4V	3.3m Ω	150A	<11mA	3.6Wh/kg	10kg	Passive	-	-40 ~ 65 $^{\circ}\text{C}$	L137.1 x W426.6 x H184mm
LSUM 048R6C 0166F EA DC	166F	48.6V	5m Ω	130A	<5mA	3.9Wh/kg	14kg	Active or Passive	Temperature (NTC)/ Over Voltage	-40 ~ 65 $^{\circ}\text{C}$	L194.5 x W419.5 x H177mm
LSUM 048R6C 0166F EA YJ	166F	48.6V	5m Ω	200A	<5mA	3.2Wh/kg	17.2kg	Active or Passive	Temperature (NTC)	-40 ~ 65 $^{\circ}\text{C}$	L471 x W418 x H71mm
LSUM 051R3C 0166F EA	166F	51.3V	5m Ω	100A	<28.5mA	5.1Wh/kg	12kg	Active & Passive	Temperature (PTC)/ Over Voltage	-40 ~ 65 $^{\circ}\text{C}$	L590.4 x W136 x H171mm
LSUM 086R4C 0093F EA	93F	86.4V	11.3m Ω	80A	<120mA	3.6Wh/kg	27kg	Passive	Temperature (PT100)	-40 ~ 65 $^{\circ}\text{C}$	L517 x W265 x H210.5mm
LSUM 129R6C 0062F EA	62F	129.6V	13.2m Ω	260A	<5mA	2.6Wh/kg	55kg	Active or Passive	Temperature & Voltage (CAN2.0B)	-40 ~ 65 $^{\circ}\text{C}$	L720 x W405 x H226mm

- Leakage Current⁽¹⁾ can be changed by Balancing method
- NTC Thermistor & Group voltage monitoring via CAN2.0B
- Customized module can be supplied under the customer's requirement

• LSUM 016R2C 0500F EA AG

- AUTOMOTIVE
- HEAVY DUTY APPLICATION
- POWER CONTROL



• LSUM 048R6C 0166F EA YJ

- HYBRID VEHICLES
- RAILWAY APPLICATION
- HEAVY INDUSTRIAL EQUIPMENT



• LSUM 016R8L 0058F EA

- WIND TURBINE PITCH CONTROL
- AGV SYSTEM
- SMALL UPS SYSTEM



• LSUM 168R0L 0005F EA

- WIND TURBINE PITCH CONTROL
- TIDE TURBINE PITCH CONTROL
- UPS SYSTEM



• LSUM 016R2C 0500F EA

- WIND TURBINE PITCH CONTROL
- TRANSPORTATION
- HEAVY INDUSTRIAL EQUIPMENT
- UPS SYSTEM



• LSUM 048R6C 0166F EA DC

- HYBRID BUS
- COLD CRANKING
- HEAVY INDUSTRIAL EQUIPMENT
- UPS SYSTEM



• LSUM 086R4C 0093F EA

- WIND TURBINE PITCH CONTROL
- DIESEL CRANKING
- UPS SYSTEM



• LSUM 129R6C 0062F EA

- HYBRID BUS / TRAM / TROLLEY
- HEAVY DUTY TRANSPORTATION
- HARBOUR CRANES
- ESS SYSTEM (ELECTRICITY PURIFIER)



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