

LS Ultracapacitor Cell



22Ø Series / 33Ø Series / 35Ø Series PCB mounting type cell

Series	Rated Voltage	Capacitance	Part No.	Max. ESR(DC)	Max. Current	Leakage Current	Max. Stored Energy	Weight	Type	Dimension
	V	F		mΩ	A	mA	Wh	kg		Ø x mm
22	2.8	100	LSUC 002R8S 0100F EA	9.0	74	<0.3	0.10	0.023	Snap-in	22 x L46
		120	LSUC 002R8S 0120F EA	9.0	81	<0.4	0.13	0.023		22 x L46
	3.0	100	LSUC 003R0S 0100F EA	9.0	79	<0.3	0.12	0.023		22 x L46
33	2.8	360	LSUC 002R8L 0360F CU03	3.2	234	<1.0	0.39	0.065	Lug	33 x L61
		320	LSUC 002R8L 0320F EM	2.0	273	<1.0	0.34	0.078		35 x L61
35	2.8	350	LSUC 002R8L 0350F EA	3.2	231	<1.0	0.38	0.072	Lug or Snap-in	35 x L61
		400	LSUC 002R8L 0400F EA	3.0	255	<1.0	0.43	0.080		35 x L66
		450	LSUC 002R8L 0450F EA	3.0	268	<1.0	0.49	0.088		35 x L71
		600	LSUC 002R8L 0600F EA	3.2	288	<1.3	0.65	0.090		35 x L71
	720	LSUC 002R8L 0720F EA	2.0	413	<1.5	0.78	0.130	35 x L105		
	3.0	380	LSUC 003R0L 0380F EA	3.2	257	<1.0	0.47	0.072		35 x L61
		430	LSUC 003R0L 0430F EA	3.0	282	<1.0	0.53	0.080		35 x L66
480		LSUC 003R0L 0480F EA	3.0	295	<1.2	0.60	0.088	35 x L71		

60Ø Series Busbar connection type cell

Series	Rated Voltage	Capacitance	Part No.	Max. ESR(DC)	Max. Current	Leakage Current	Max. Stored Energy	Weight	Type	Dimension
	V	F		mΩ	A	mA	Wh	kg		Ø x mm
60	2.7	650	LSUC 002R7C 0650F NH	0.57	640	<1.5	0.65	0.200	Cylindrical	60 x L51.5
		1200	LSUC 002R7C 1200F NH	0.33	1160	<2.7	1.21	0.280		60 x L74
		1500	LSUC 002R7C 1500F NH	0.28	1426	<3.0	1.51	0.320		60 x L85
		2000	LSUC 002R7C 2000F NH	0.27	1753	<4.0	2.02	0.380		60 x L102
		3000	LSUC 002R7C 3000F NH	0.23	2396	<5.0	3.03	0.515		60 x L138
	2.85	3400	LSUC 02R85C 3400F NH	0.23	2719	<8.0	3.83	0.515		60 x L138
	3.0	3000	LSUC 003R0C 3000F NH	0.23	2663	<5.0	3.75	0.515		60 x L138
		3400	LSUC 003R0C 3400F NH	0.23	2800	<8.0	4.25	0.515		60 x L138

- Max. Current : Non-repeated (Calculated value)
- Operating Temperature Range : -40 ~ 65°C

Lug & Snap-in Terminal Type



- Snap-in (100F/ 120F)
- Lug (320F ~ 600F)
- Snap-in (4pin, 350F ~ 720F)

Cylindrical Terminal Type



- Short Screw (ST01)
- Weldable (WT01)
- Long Screw (LT01) M16 Terminal
- Long Screw (LT02) M12 Terminal

LS Ultracapacitor Module



LSUM 129R6C 0062F EA

PCB type series / Busbar type series

Series	Part No.	Rated Voltage	Capacitance	Max. ESR(DC)	Max. Continuous Current	Stored Energy	Weight	Balancing	Monitoring	Dimension
		V	F	mΩ	A	Wh	kg			L x W x H (mm)
PCB type	LSUM 016R8L 0058F EA	16.8	58	22	20	2.3	0.7	Active or Passive	-	245 x 47 x 76.6
	LSUM 168R0L 0005F EA	168	5.8	240	12	22.7	6.5	Passive	Temperature(NTC)/Half Voltage monitoring	235 x 367 x 79
	LSUM 403R2L 0004F EA	403.2	4.1	400	25	92.6	23.0	Passive	Temperature(NTC)/Over Voltage	795 x 185 x 179.5
Busbar type	LSUM 016R2C 0500F EA	16.2	500	1.7	200	18.2	5.6	Active or Passive	Temperature(NTC)	67.2 x 416.2 x 175.9
	LSUM 032R4C 0250F EA	32.4	250	3.3	150	36.5	10.0	Passive	-	137.1 x 426.6 x 184
	LSUM 048R6C 0166F EA DC	48.6	166	5.0	130	54.5	14.0	Active or Passive	Temperature(NTC)/Over Voltage	194.5 x 419.5 x 177
	LSUM 051R3C 0166F EA	51.3	166	5.0	100	60.7	12.0	Active or Passive	Temperature(PTC)/Over Voltage	590.4 x 136 x 171
	LSUM 086R4C 0093F EA	86.4	93	11.3	80	96.4	27.0	Passive	Temperature(PT100)	517 x 265 x 210.5
	LSUM 129R6C 0062F EA	129.6	62	13.2	240	144.6	55.0	Active or Passive	Temperature & Voltage(CAN 2.0B)	720 x 405 x 226

CTC series

CTC (Cell To Cell) series module is available from 16V to 108V, is extendable and customizable without additional costs to the customer

Series	Part No.	Adapted Cell			Rated Voltage	Capacitance	Max. ESR(DC)	Max. Continuous Current	Stored Energy	Weight	Dimension		
		Rated Voltage	Capacitance	Series									
		V	F										
CTC type	LSUM 048R6C 0066F EA YJ	2.7	1200	18	48.6	66	7.2	160	21.7	10.3	279 x 418 x 71		
	LSUM 064R8C 0050F EA YJ			24	64.8	50	9.6	130	29.2	13.2	362 x 418 x 71		
	LSUM 048R6C 0083F EA YJ			18	48.6	83	6.1	180	27.2	11.5	312 x 418 x 71		
	LSUM 064R8C 0062F EA YJ			24	64.8	62	8.1	140	36.2	14.8	406 x 418 x 71		
	LSUM 048R6C 0111F EA YJ			18	48.6	111	5.9	180	36.4	13.5	363 x 418 x 71		
	LSUM 064R8C 0083F EA YJ			24	64.8	83	7.8	150	48.4	17.5	474 x 418 x 71		
	LSUM 048R6C 0166F EA YJ			18	48.6	166	5.0	200	54.5	17.2	471 x 418 x 71		
	LSUM 064R8C 0125F EA YJ			24	64.8	125	6.7	160	72.9	22.5	618 x 418 x 71		
	LSUM 016R2C 0250F EA AG			2.7	1500	6	16.2	250	2.0	150	9.1	3.9	311 x 166 x 70
	LSUM 016R2C 0500F EA AG						500	1.7	200	18.2	5.9	470 x 166 x 70	

Monitoring for CTC series module

Temperature Sensor	Temperature Interface	Connector	Cell Voltage Monitoring	Balancing
NTC Thermistor	Analog	4pin	OVA(Optional)	Active or Passive

- Leakage Current can be changed by Balancing method
- Customized module can be supplied under the customer's requirement
- NTC Thermistor & Group voltage monitoring is analog method
- Max Continuous Current : $\Delta T = 40^{\circ}\text{C}$



LSUM 016R8L 0058F EA



LSUM 168R0L 0005F EA



LSUM 403R2L 0004F EA



LSUM 016R2C 0500F EA



LSUM 032R4C 0250F EA



LSUM 048R6C 0166F EA DC



LSUM 051R3C 0166F EA



LSUM 086R4C 0093F EA



LSUM 048R6C 0166F EA YJ



LSUM 016R2C 0500F EA AG