#### DATA SHEET

# LSUM 064R8C 0062F EA YJ

The Ultracapacitor, also known as double-layer capacitor, stores energy by means of a static charge as opposed to a battery, which uses an electrochemical reaction.

The Ultracapacitor is used for energy storage applications which undergo very frequent charge and discharge cycles at high current and short duration. Its life can be as high as one million cycles. It features a wide operating temperature range, from - 40°C to 65°C, making it an ideal energy storage device for extreme environments.

It can be applied in wind power, hybrid systems, industrial automation, power backup and stabilization. Imagination is its only boundary.



### **PERFORMANCE** SPECIFICATIONS

64.8 V
68.4 V
750 V
62 F
- 0% / + 20%
8.1 mΩ
36.1 Wh
1,300 A
< 3 mA
2.7 V
1,500 F
24 Series

<sup>1</sup>The stated maximum peak current should not be used in normal operation and is only provided as a reference value.

 $^{\rm 2}\,{\rm The}$  module leakage current is based on the calculated value. It may change depending on the cell balancing configuration

## **LIFE INFORMATION**

Endurance Life (65 °C)	1500hr
Capacitance Change <sup>3</sup>	< 20%
ESR DC Change <sup>4</sup>	< 100%
Projected Life (25 °C)	10 Years
Capacitance Change <sup>3</sup>	< 20%
ESR DC Change <sup>4</sup>	< 100%
Projected Cycle Life (25 °C) <sup>5</sup>	1,000,000 Cycles
Capacitance Change <sup>3</sup>	< 20%
ESR DC Change <sup>4</sup>	< 100%
Shelf Life (25 °C) <sup>6</sup>	4 Years

<sup>3</sup> Decrease from minimum initial value.

<sup>4</sup> Increase from maximum initial value. <sup>5</sup> Cycle Life may vary for different working conditions. (e.g. voltage or temperature)

<sup>6</sup> Stored uncharged state under appropriate storage conditions

## **THERMAL** SPECIFICATIONS

Max. Continuous Current $\Delta T=15 \ ^{\circ}C^{7}$	TBD
Max. Continuous Current △T=40 °C <sup>7</sup>	TBD
Thermal Resistance (°C/W) <sup>8</sup>	TBD
<sup>7</sup> Initial state value.	

<sup>8</sup>The specification is calculated under limited conditions.

#### **SAFETY** INFORMATION

Short Circuit Current <sup>9</sup>	8,000 A
Isolation Voltage (DC, Terminal – Case, 60 sec)	2.5 kV
Certification	RoHS, REACH

<sup>9</sup>Calculated value. Do not use as an operating current.

### MONITORING INFORMATION

Temperature Sensor	NTC thermistor
Communication Interface	Analog
Connector	SWH-8W-4(R)
Cell Voltage Monitoring	Over Voltage Alarm (option)
Cell Balancing	Active, Passive (option)





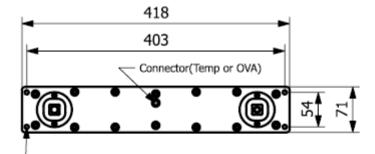
### **MECHANICAL** SPECIFICATIONS

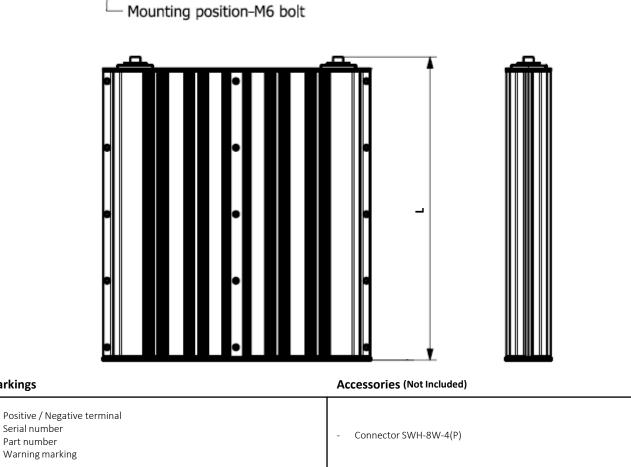
Length	406.0 ± 2.0 mm
Width	418.0 ± 1.0 mm
Height	71.0 ± 1.0 mm
Weight	Max. 14.8 kg

## **PHYSICAL** SPECIFICATIONS

Power Terminals	M8/M10
Recommended Torque (Terminal)	20Nm / 30Nm
Vibration & Shock Protection <sup>10</sup>	IEC 61373
Environment Protection <sup>10</sup>	IP 66 (option)

<sup>10</sup>The specifications are for tests with limited conditions and may different under actual conditions.





Notice : Product dimensions and specifications may change without notice. Please contact LS Materials for any technical specifications



Markings

