LSUM 016R2C 0250F EA AG

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.



* This is an image for reference.

PERFORMANCE SPECIFICATIONS

Rated Voltage(Nominal)	16.2 V
Serge Voltage	17.1 V
Max. Series Voltage	750 V
Capacitance	250 F
Capacitance Tolerance	- 0% / + 20%
Max. ESR DC	2.0 mΩ
Typical ESR DC	1.6 mΩ
Total Energy	9.1 Wh
Max. Current ¹	1,300 A
Leakage Current ²	< 3 mA
Rated voltage of Cells	2.7 V
Capacitance of Cells	1500 F
Number of Cells	6 Series

 $^{^{1}\}mathrm{The}$ stated maximum peak current should not be used in normal operation and is only provided as a reference value.

THERMAL SPECIFICATIONS

Max. Continuous Current $\triangle T=15$ °C ⁷	90 A
Max. Continuous Current $\triangle T$ =40 °C ⁷	150 A
Thermal Resistance (°C/W) ⁸	0.93 °C/W

⁷Initial state value.

SAFETY INFORMATION

Short Circuit Current ⁹	8,100 A
Isolation Voltage (DC, Terminal – Case, 60 sec)	2.5 kV
Certification	RoHS, REACH

⁹Calculated value. Do not use as an operating current.

LIFE INFORMATION

1500hr
< 20%
< 100%
10 Years
< 20%
< 100%
1,000,000 Cycles
< 20%
< 100%
4 Years

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)





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

⁸The specification is calculated under limited conditions.

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

⁶ Stored uncharged state under appropriate storage conditions

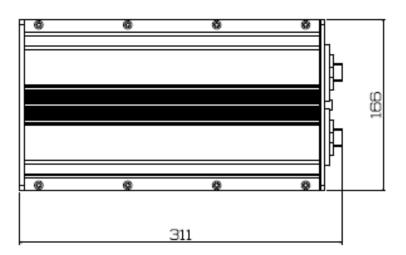
MECHANICAL SPECIFICATIONS

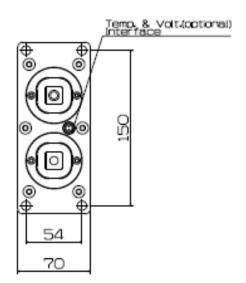
Length	311.0 ± 2.0 mm
Width	166.0 ± 1.0 mm
Height	70.0 ± 1.0 mm
Weight	Max. 3.9 kg

PHYSICAL SPECIFICATIONS

Power Terminals	M8 / M10
Recommended Torque (Terminal)	20Nm / 30Nm
Vibration & Shock Protection ¹⁰	TBD
Environment Protection ¹⁰	TBD

 $^{^{10}}$ The specifications are for tests with limited conditions and may different under actual conditions.





Markings

Positive / Negative terminal

- Serial number

- Part number

Warning marking

Accessories (Not Included)

Connector SWH-8W-4(P)

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



