

LSUM 129R6C 0062F EA FI

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

Rated Voltage(Nominal)	129.6 V
Serge Voltage	136.8 V
Max. Series Voltage	1,500 V
Capacitance	62 F
Capacitance Tolerance	-0% / + 20%
Max. ESR DC	13.2 mΩ
Typical ESR DC	10.0 mΩ
Total Energy	144.6 Wh
Max. Current ¹	2,200 A
Leakage Current ²	< 10 mA
Rated voltage of Cells	2.7 V
Capacitance of Cells	3000 F
Number of Cells	48 Series

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

² 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 ³	< 20%
ESR DC Change ⁴	< 100%
Projected Life (25 °C)	10 Years
Capacitance Change ³	< 20%
ESR DC Change ⁴	< 100%
Projected Cycle Life (25 °C) ⁵	1,000,000 Cycles
Capacitance Change ³	< 20%
ESR DC Change ⁴	< 100%
Shelf Life (25 °C) ⁶	4 Years

³ Decrease from minimum initial value.

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.

THERMAL SPECIFICATIONS

Max. Continuous Current ΔT=15 °C ⁷	140 A
Max. Continuous Current ΔT=40 °C ⁷	240 A
Thermal Resistance (°C/W) ⁸	0.06 °C/W

⁷Initial state value.

⁸The specification is calculated under limited conditions.

SAFETY INFORMATION

Short Circuit Current ⁹	9,800 A
Isolation Voltage (DC, Terminal – Case, 60 sec)	4.0 kV
Certification	ROHS, REACH, E-Mark

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

MONITORING INFORMATION

Temperature Sensor	NTC thermistor
Communication Interface	CAN 2.0B
Connector	YEONHAB YH3106A
Cell Voltage Monitoring	Group Voltage Monitoring
Cell Balancing	Active, Passive (option)

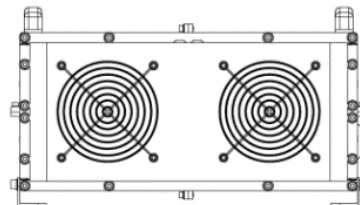
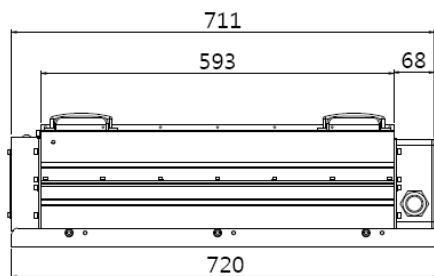
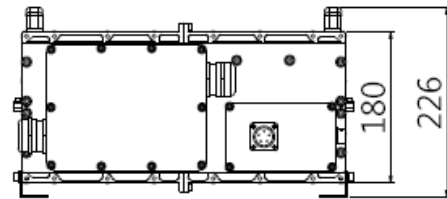
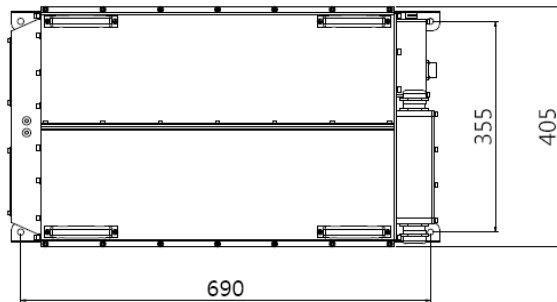
MECHANICAL SPECIFICATIONS

Length	720.0 ± 2.0 mm
Width	405.0 ± 2.0 mm
Height	226.0 ± 2.0 mm
Weight	Max. 55.0 kg

PHYSICAL SPECIFICATIONS

Power Terminals	M8 / M10
Recommended Torque (Terminal)	20Nm / 30Nm
Vibration & Shock Protection ¹⁰	IEC61373
Environment Protection ¹⁰	IP67

¹⁰The specifications are for tests with limited conditions and may differ under actual conditions.



Markings

- Positive / Negative terminal
- Serial number
- Part number
- Warning marking

Accessories

- 7283840 Water Proof Connector

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