



Document Number	V02_180828
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Product specification

LSUM 168R0L 0005F EA



Product specification

■ Specification

1. Primary specification

Part number	Capacitance (F)	Max. ESR (mΩ)_DC	Max. Current (A) ¹ Non-repeated (Calculated value)	Leakage Current (mA)
LSUM 168R0L 0005F EA	5.8	240	200	< 25

2. Power & Energy

Part number	Usable Specific Power, P _d (W/kg) ²	Impedance Match Specific Power, P _{max} (W/kg) ³	Energy Density (Wh/kg)	Max. Stored Energy (Wh)
LSUM 168R0L 0005F EA	2,100	4,500	3.5	22.7

3. Standard & Reliability

Rated Voltage	168 V		
Max. Voltage ⁴	180 V		
Maximum series Voltage	750 V		
Capacitance Tolerance	0% / +20%		
Operating temperature range	-40 ~ 65 °C		
Storage temperature range	-40 ~ 70 °C		
Max. continuous current ⁵	ΔT = 15 °C	7A	
	ΔT = 40 °C	12A	
Endurance Life (65°C)	1,500 Hours		
	Capacitance change	Within 20% of initially specified value	
	ESR change	Within 100% of initially specified value	
Projected Life Time (25°C)	10 Years at rated voltage		
	Capacitance change	Within 20% of initially specified value	
	ESR change	Within 100% of initially specified value	
Projected Cycle Life (25°C) ⁶	500,000 Cycles		
	Capacitance change	Within 20% of initially specified value	
	ESR change	Within 100% of initially specified value	
Shelf Life (25°C)	4 Years stored uncharged state		
Certifications	REACH, UL810A		

4. Monitoring

Part number	Temperature sensor	Temperature interface	Connector	Cell voltage monitoring	Balancing
LSUM 168R0L 0005F EA	NTC Thermistor	Analog	M5 Terminal type	Half Voltage Monitoring	Passive

*Remarks

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

2) Usable specific power

$$P_d = \frac{0.12 \times V^2}{ESR \times mass}$$

3) Impedance match specific power

$$P_{max} = \frac{V^2}{4 \times ESR \times mass}$$

4) Non repeated, not to exceed 1sec.

5) Initial state value.

6) Actual cycle value can be subject to various application conditions.

Product specification

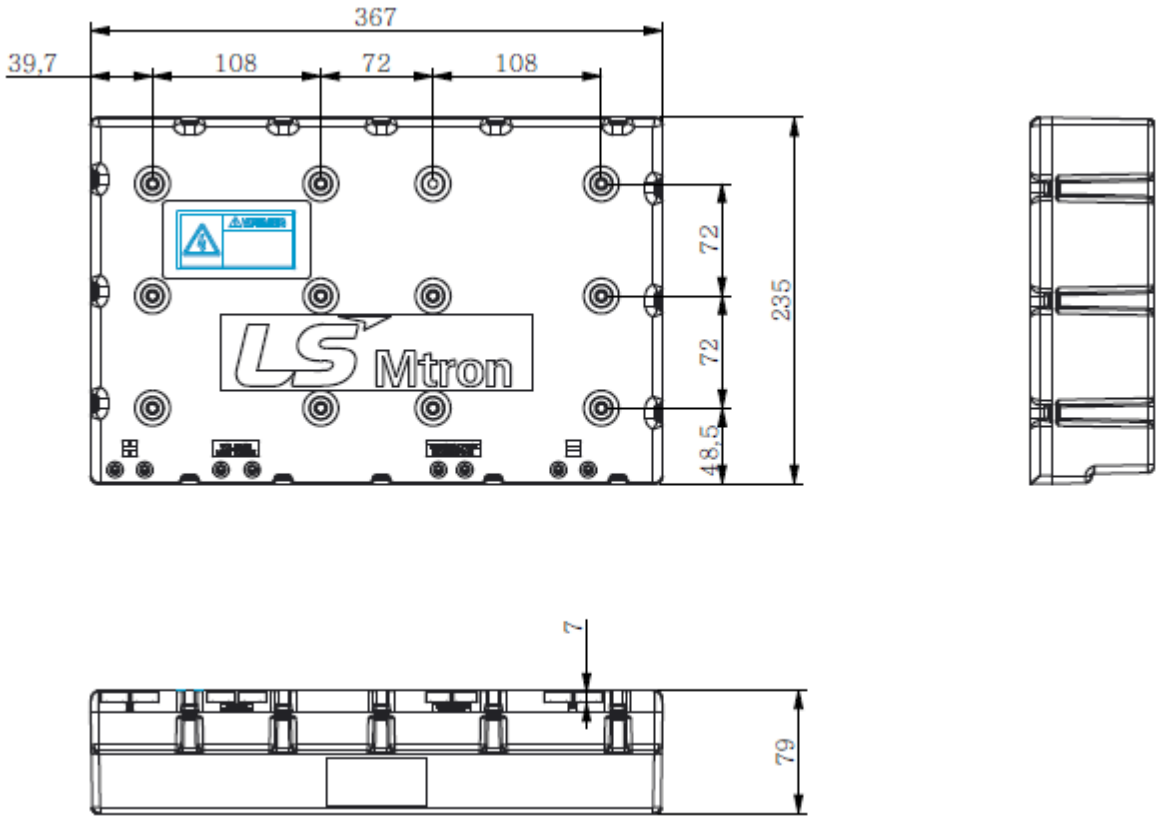
Safety & Physical Protection

Part number	Isolation voltage (DC)	Short circuit current(A) ⁷	Power Terminals	Recommended Torque - Terminal	Environmental Protection ⁸	Shock & vibration Protection ⁸
LSUM 168R0L 0005F EA	5.6kV	700	M5	4 Nm	IP 54	IEC60068-2-27 IEC60068-2-6

Dimension in mm (not to scale)

Geometric properties

Part number	Dimension (mm)			Max. Weight (kg)
	Length	Width	Height	
LSUM 168R0L 0005F EA	235±1	367±1	79±1	6.5



*Remarks

7) Calculated value. Do not use as an operating current.

8) This value is for a test with limited conditions and may be different under actual conditions.