



Document Number	V01_161020
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Product specification

LSUM 048R6C 0166F EA DC



Product specification

■ Specification

1. Primary specification

Part number	Capacitance (F)	Max. ESR (mΩ) _{DC}	Max. Current (A) Non-repeated	Leakage Current (mA)
LSUM 048R6C 0166F EA DC	166	5	2,200	< 5

2. Power & Energy

Part number	Usable Specific Power, P _d (W/kg)	Impedance Match Specific Power, P _{max} (W/kg)	Energy Density (Wh/kg)	Max. Stored Energy (Wh)
LSUM 048R6C 0166F EA DC	4,000	8,400	3.9	54.5

3. Standard & Reliability

Rated Voltage	48.6V			
Max. Voltage ¹	51.3V			
Maximum series Voltage	750V			
Capacitance Tolerance	0% / +20%			
Operating temperature range	-40 ~ 65 °C			
Storage temperature range	-40 ~ 70 °C			
Max. continuous current ²	ΔT = 15 °C	80A		
	ΔT = 40 °C	130A		
Endurance Life (65°C)	1,500 Hours			
	Capacitance change	Within 20% of initially specified value		
	ESR change	Within 100% of initially specified value		
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		
Cycle Life (25°C)	1,000,000 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	ROHS, UL810A			

4. Monitoring

Part number	Temperature sensor	Temperature interface	Connector	Cell voltage monitoring	Balancing
LSUM 048R6C 0166F EA DC	NTC Thermistor	Analog	Deutsch DTM	Over Voltage Alarm	Active or Passive

*Remarks

1) Non repeated, not to exceed 1sec.

2) Initial state value.

Product specification

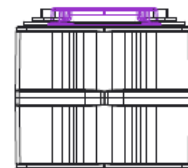
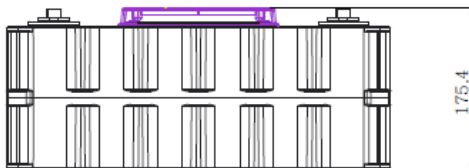
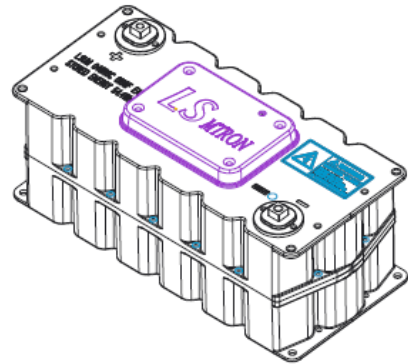
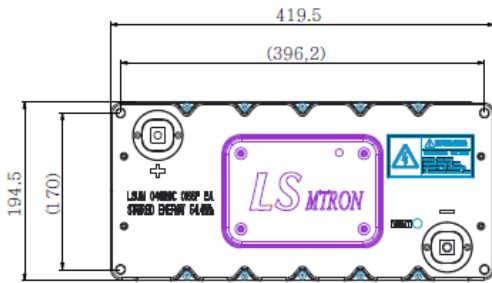
Safety & Physical Protection

Part number	Isolation voltage (DC)	Short circuit current(A)	Power Terminals	Recommended Torque - Terminal	Environmental Protection ³	Shock & vibration Protection
LSUM 048R6C 0166F EA DC	2.5kV	9,700	M8 / M10	20 / 30 Nm	IP 65	IEC61373

Dimension in mm (not to scale)

Geometric properties

Part number	Dimension (mm)			Max. Weight (kg)
	Length	Width	Height	
LSUM 048R6C 0166F EA DC	194.5±1.0	419.5±1.0	175.4±1.0	14.0



*Remarks

3) As a test result of sample, This test result does not guarantee the whole product quality.