

Part Number	LSUM 048R6C 0083F EA
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Technical Proposal

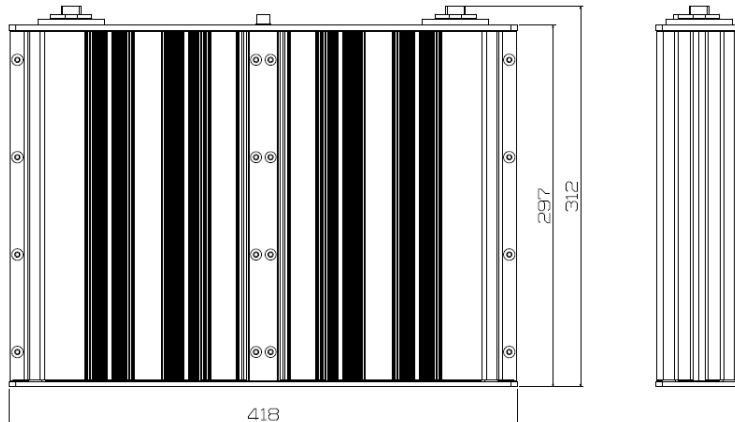
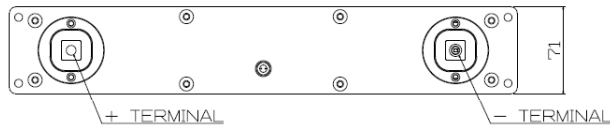


Technical Proposal

Module Specification

Dimension

Mass (kg)	Size (mm)		
	Length	Width	Height
10.5 ± 1	418 ± 2.0	71 ± 1.0	312 ± 2.0



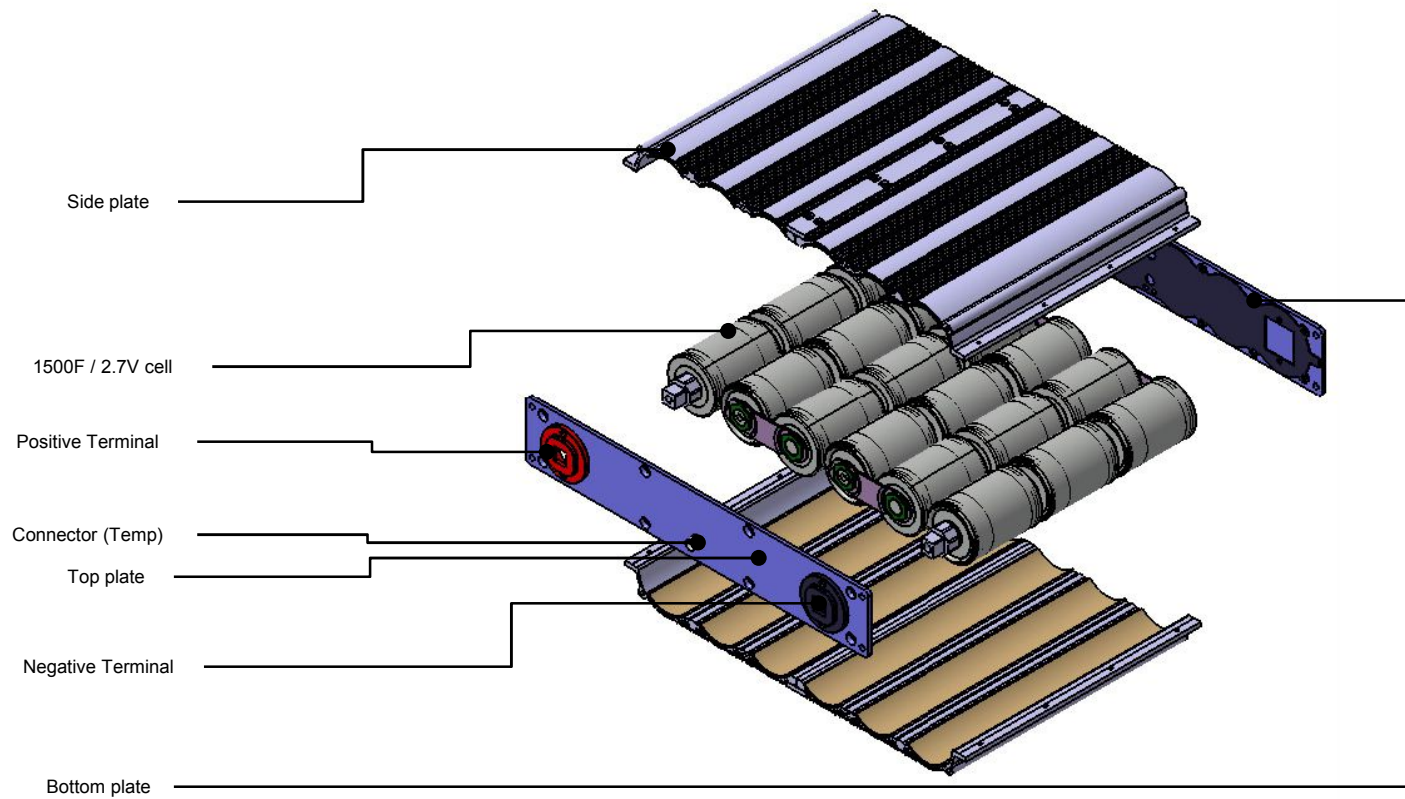
Specification

Specification item		value
Capacitance	Initial	83F
	Rated	48.6V DC
Voltage	Max.	51.3V DC
	ESR, DC	Max. 6mΩ
Resistance	ESR, DC	Max. 6mΩ
Stored energy	Initial	27.3Wh
	End of life	21.8Wh
Cooling		Conduction
Insulation Voltage	*between main terminals and Case	DC 2500V, 1min
Management	Cell Balancing	Passive
	Thermal monitoring	NTC Thermister
Current	Leakage (passive balancing)	27 mA
TEMPERATURE	Operating temp.	-40 ~ +65 °C
	Storage temp.	-40 ~ +70 °C
Endurance (1,500hr/rated voltage/65°C)	Capacitance change	<20% decrease
	Internal resistance change	<100% increase
Life Time (10year/rated voltage/25°C)	Capacitance change	<20% decrease
	Internal resistance change	<100% increase
Cycle Life (25°C/1 million)	Capacitance change	<20% decrease
	Internal resistance change	<100% increase

Technical Proposal

Inner Structure

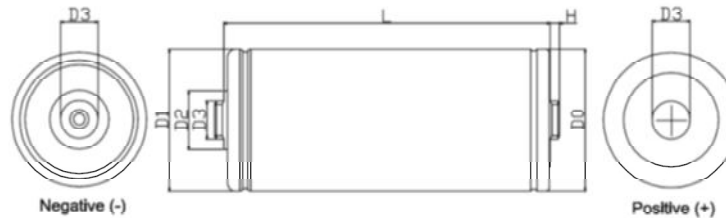
Exploded View



Technical Proposal

Cell Specification

Standard Ratings



Dimension in mm (not to scale)

Part number	Capacitance (F)	Resistance (mΩ)		Max. Current (A)	Leakage Current (mA)	Max. Stored Energy (Wh)	Dimension (mm)					Weight (g)
		(100Hz)	DC				D0 (±0.3)	D1 (±0.7)	D3	H (+ 1.0)	L (±0.5)	
LSUC 002R7C 1500F EA ST01	1500	0.27	0.28	1,426	< 3	1.52	Ø 60	Ø 60.7	M16,P1	4	85	330

Rated Voltage	2.7 V	
Surge Voltage	2.85 V	
Capacitance Tolerance	- 0% / + 20%	
Resistance Tolerance	< Spec. Value	
Operating temperature range	-40 ~ 65 °C	
Storage temperature range	-40 ~ 70 C	
Life Time (25°C)	After 10 years at rated voltage and +25 °C	
	Capacitance change	Within 20% of initially specified value
	Internal resistance change	Within 100% of initially specified value
Cycle Life (25°C)	After 1,000,000 cycles between rated voltage to half rated voltage at +25 °C	
	Capacitance change	Within 20% of initially specified value
	Internal resistance change	Within 100% of initially specified value