

Part Number	LSUM 048R6C 0083F EA
Document Number	V1_20140411



Technical Proposal

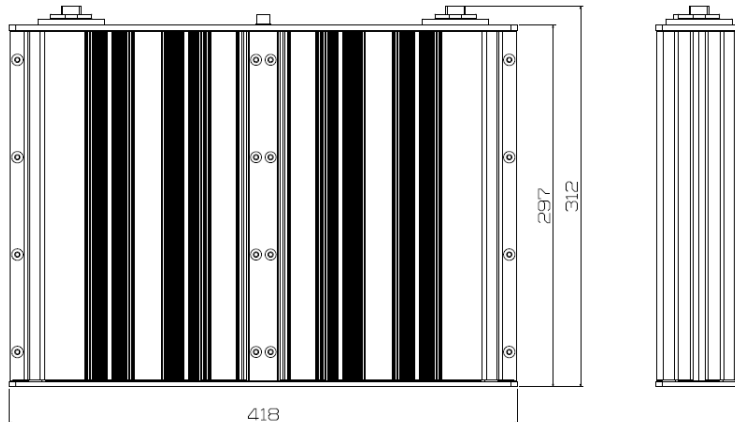
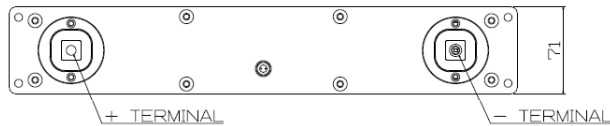


Technical Proposal

Module Specification

Dimension

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



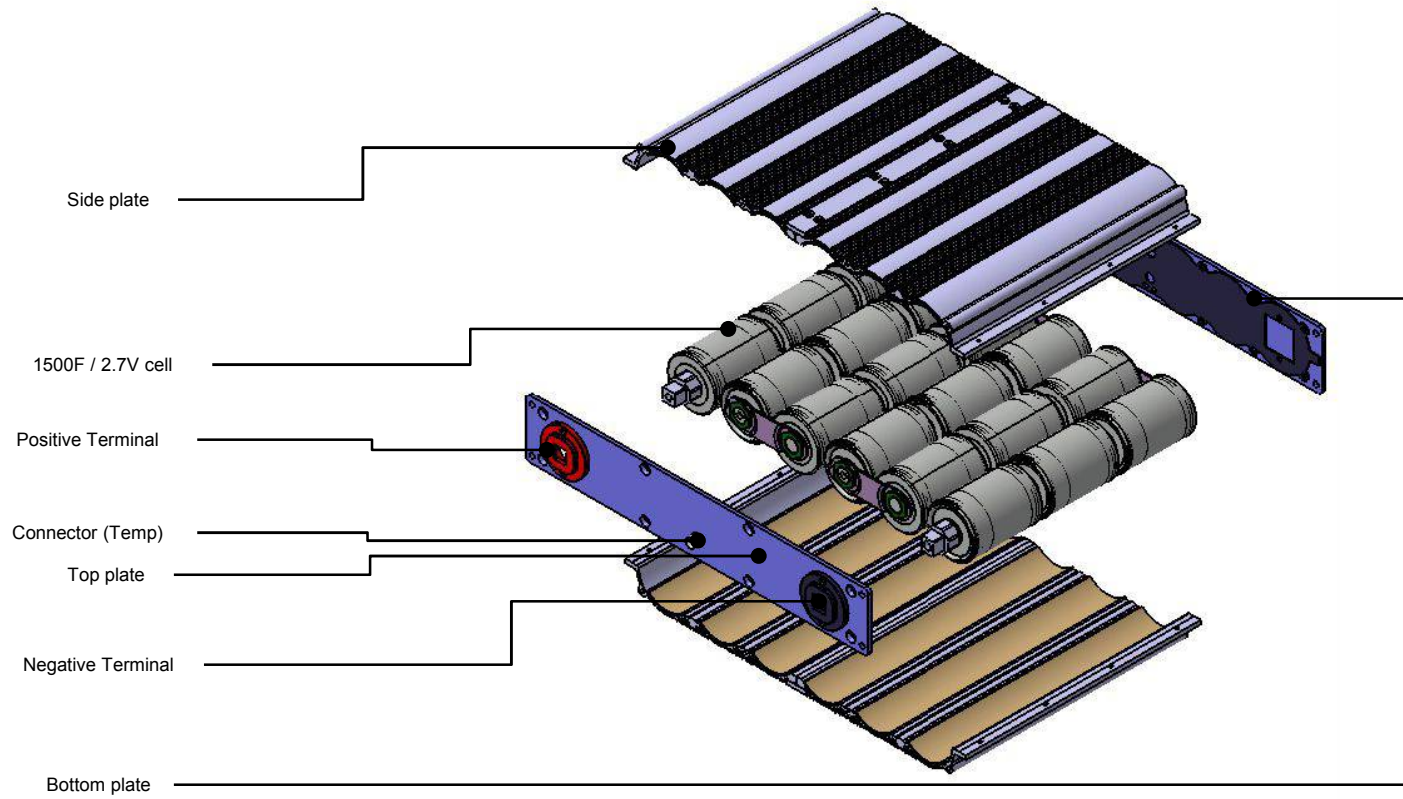
Specification

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

Technical Proposal

Inner Structure

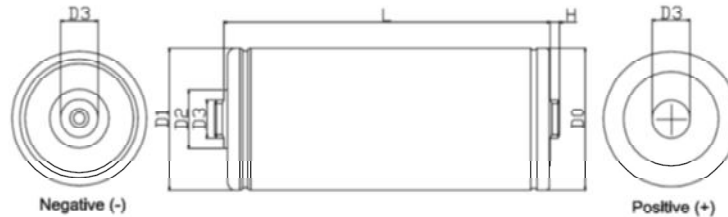
Exploded View



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