Document Number	V02_180828

Product specification

LSUM 086R4C 0093F 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 086R4C 0093F EA	93	11.3	1,900	< 120

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 086R4C 0093F EA	2,900	6,100	3.6	96.4

3. Standard & Reliability

Rated Voltage	86.4V	
Max. Voltage[4]	91.2V	
Maximum series Voltage	750V	
Capacitance Tolerance	0% / +20%	
Operating temperature range	-40 ~ 65 ˚C	
Storage temperature range	-40 ~ 70 ˚C	
Max. continuous current[5]	ΔT = 15 ℃	50A
	ΔT = 40 ℃	80A
Endurance Life (65℃)	1,500 Hours	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Projected Life Time (25℃)	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℃)[6]	1,000,000 Cycles	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Shelf Life (25℃)	4 Years stored uncharged state	

4. Monitoring

Part number	Temperature sensor	Temperature interface	Connector	Balancing
LSUM 086R4C 0093F EA	PT100	Analog	Harting	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

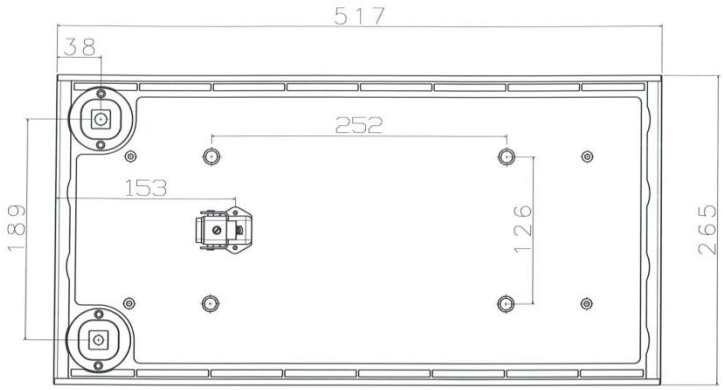
■ Safety & Physical Protection

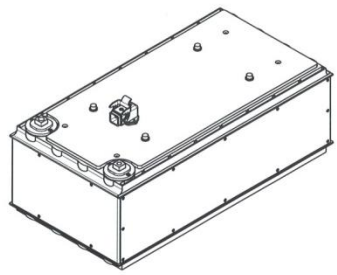
Part number	Isolation voltage (DC)	Short circuit current(A)[7]	Power Terminals	Recommended Torque - Terminal	Environmental Protection[8]	Shock & vibration Protection[8]
LSUM 086R4C 0093F EA	2.5kV	7,600	M8 / M10	20 / 30 Nm	IP 54	SAE J2380

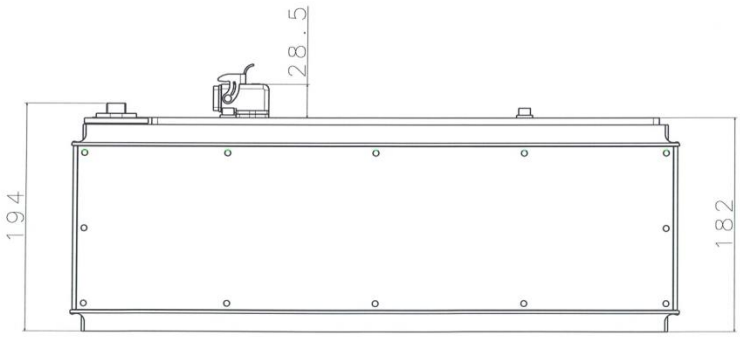
Dimension in mm (not to scale)

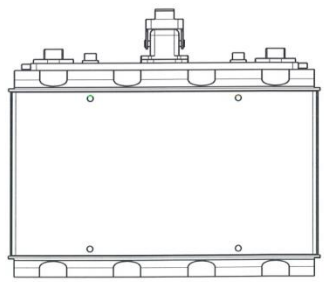
■ Geometric properties

Part number	Dimension (mm)			Max. Weight (kg)
	Length	Wide	Height	
LSUM 086R4C 0093F EA	517.0±1.0	265.0±1.0	210.5±1.0	27









*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.