



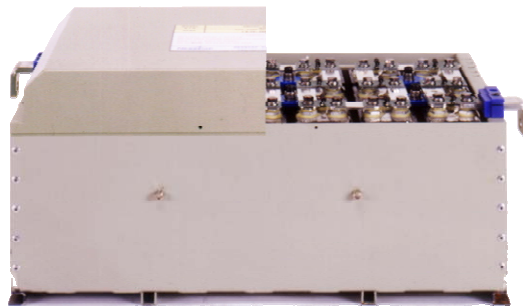
NESSCAP® Ultracapacitor Products

Features

Module
Compliant with RoHS requirement (Ex : Cd, Pb)
Active + passive cell voltage balancing
21 serial connection of 2.7V/5000F cells

Dimension

Dimension in mm (not to scale)



Capacitance	Dimension (mm)		
	L (max)	W (max)	T (max)
238F	512	311	240

Product & Spec.

Rated Capacitance	Internal Resistance (mΩ)		Max. Current (A)	Leakage Current (mA)	Stored Energy (Wh)	Specific Energy (Wh/kg)	Weight (kg)	Part Number
	AC(100Hz)	DC	1 sec discharge rate to 1/2V _R	72hours, 25°C	at V _R	Gravimetric		
238F	< 4.8	< 6.1	2,524	N/A	89.382	2.79	32	EMHSP-0238C0-052R0

Rated Voltage, V _R	52.5 V	
Surge Voltage	56.7 V	
Capacitance Tolerance	0% / +20%	
Operating Temperature Range	-40 ~ 65 °C	ΔC <5% and ΔESR < 0.5 times of initially measured value at 25°C, respectively
Storage Temperature Range	-40 ~ 70 °C	
Life Time at RT ⁽¹⁾	10 years	(1) ΔC < 30% and ΔESR < 1 times of initially specified value, respectively and LC < specified value
Cycle Life (25°C) ⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

* Life time is provisional value

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