



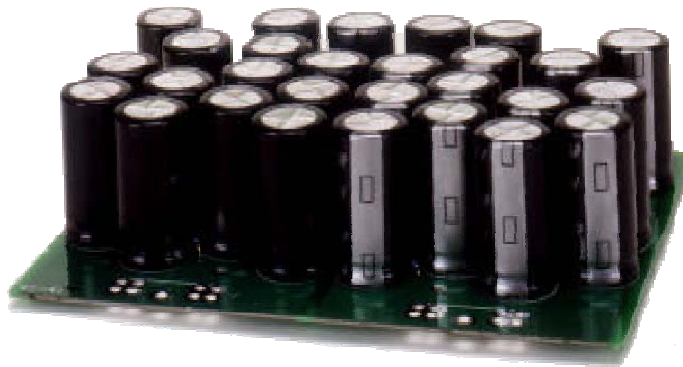
# NESSCAP® Ultracapacitor Products

## Features

- Semi-packaged Module (PCB Ass'y)
- Compliant with RoHS requirement ( Ex : Cd, Pb)
- Passive cell voltage balancing
- 7 serial and 4 parallel connection of 2.7V/100F cells

## Dimension

Dimension in mm (not to scale)



Capacitance	Dimension (mm)		
	L (max)	W (max)	T (max)
57F	180	48	150

## 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						
Discharge with constant current at 25°C			1 sec discharge rate to 1/2V <sub>R</sub>	72hours, 25°C	at V <sub>R</sub>	Gravimetric		
57F	< 16	< 21	227.0	N/A	2.424	1.62	1.5	EMHSR-0057C0-017R5

Rated Voltage, V <sub>R</sub>	17.5 V	
Surge Voltage	18.9 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 <sup>(1)</sup>	10 years	(1)   ΔC   < 30% and ΔESR < 1 times of initially specified value, respectively and LC < specified value
Cycle Life (25°C) <sup>(1)(2)</sup>	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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