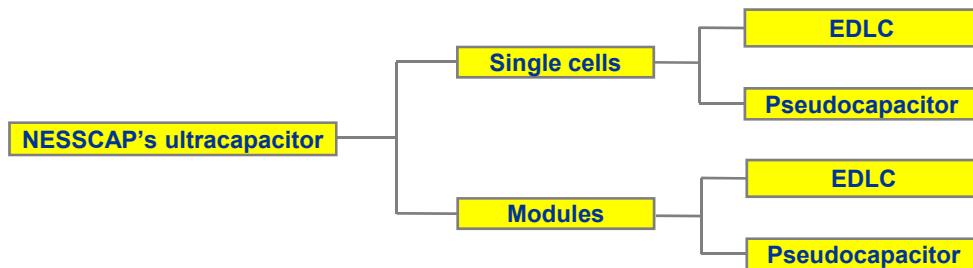




NESSCAP® Ultracapacitor Overview

Product structure



NESSCAP ultracapacitors are available in single cells and modules, which are composed of our single cells.

EDLC

NESSCAP EDLC products have low internal resistance, long cycle life reliability and world class performance at the rated voltage.

NESSCAP capacitors are designed and manufactured to fully meet our customers' needs in providing diverse voltage options and a extensive line up of various capacitance.

Pseudocapacitor

NESSCAP pseudocapacitors have the same basic structure and characteristics as Electric Double Layer Capacitors (EDLC). These two technologies are provided to our customers to provide them alternatives when choosing their design parameters. NESSCAP has continued its R&D efforts to increase the pseudocapacitor's energy density by using organic electrolyte and continued development in its low cost patented metal oxide electrode. The pseudocapacitor continues to gain market acceptance as a viable alternative energy storage device.

Module

NESSCAP has developed a wide variety of modules which are comprised of our world class EDLC and Pseudocapacitors cells. We provide our modules with both passive and active cell balancing, multiple voltages and many choices in size. Modules provide customer's alternative choices when higher energy density requirements are necessary for their applications in automotive, UPS, industrial applications.

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ISO 9001, 14001



NESSCAP® Ultracapacitor Line-up

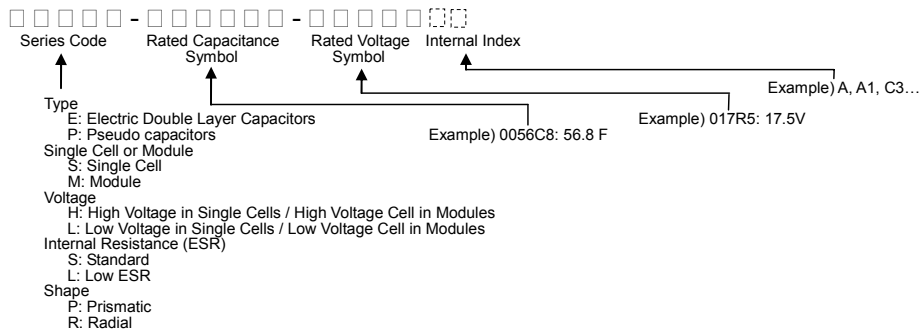
Product Line-up

As of year 2007

	Series	Size	Rated Voltage (V, DC)	Nominal Capacitance (F)	ESR (mΩ)		Dimension (mm)				Volume (ml)	Weight (g)	Typical Applications	Part Number	
					AC	D	L	W	T						
Single cells	EDLC	Small	2.3	5	125	10	20				1.6	2.4	Primary and back-up power supply for LED displays, toys, AMR(auto meter reader), electric buzzers, hand held scanners, printers, actuators and relays, etc.	ESLSR-0005C0-002R3	
			2.3	7	35	8	30				1.5	2.2		ESLLR-0007C0-002R3	
			2.3	10	70	10	30				2.4	3.6		ESLSR-0010C0-002R3	
			2.3	25	38	16	25				5.0	7.6		ESLSR-0025C0-002R3	
			2.3	60	23	18	40				10.2	13.5		ESLSR-0060C0-002R3	
			2.7	3	61	8	20				1.0	1.5		ESHSR-0003C0-002R7	
			2.7	5	29	10	20				1.6	2.3		ESHSR-0005C0-002R7	
			2.7	6	26	8	30				1.5	2.3		ESHSR-0006C0-002R7	
			2.7	10	26	10	30				2.4	3.2		ESHSR-0010C0-002R7	
		2.7	25	21	16	25				5.0	6.5	ESHSR-0025C0-002R7			
		2.7	50	14	18	40				10.2	11.3	ESHSR-0050C0-002R7			
		Medium	2.3	120	16	22	45				17.1	23		Primary and back-up power supply, DVR, Small size UPS, electric buzzers, Windmills, Electric tools, car audios, actuators and relays, etc.	ESLSR-0120C0-002R3
			2.7	90	6	22	45				17.1	21.5			ESHLSR-0090C0-002R7
			2.7	100	9	22	45				17.1	21			ESHSR-0100C0-002R7
			2.7	360	3.2	35	62				60	65.5			ESHSR-0360C0-002R7
			2.7	360	3.2	35	62				60	67			ESHSR-0360C0-002R7A
		Large	2.7	400	3.2	35	60				58	65		Peak power supply for vehicles, voltage compensators and car audios, etc.	ESHSP-0400C0-002R7
			2.7	600	0.64		90	60	28		151	210			ESHSP-0600C0-002R7
	2.7		1700	0.5		165	60	28		277	385	ESHSP-1700C0-002R7			
	Pseudo capacitor	Small	2.3	30	32	10	30				2.4	3.7	Energy storage source for solar lighting and wind systems and memory backup for electric equipment and toys, etc.	PSHLR-0030C0-002R3	
			2.3	50	24	16	25				5.0	7.6		PSHLR-0050C0-002R3	
2.3			120	18	18	40				10.2	15	PSHLR-0120C0-002R3			
Medium		2.3	220	14	22	45				17.1	23	PSHLR-0220C0-002R3			
		2.3	300	12	22	50				19.0	25.2	PSHLR-0300C0-002R3			
Module	Module	Small	5.0	1.5	110	9.5	23	17.5				3.4	Power back-up for mobile terminals, hand held and relays, etc.	EMHSR-0001C5-005R4	
			5.0	2.5	53	12	23	21.5				5		EMHSR-0002C5-005R4	
		Large	15	33	27		242	48	54			850		EMHSR-0030C0-015R0	
			17.5	57	16		180	48	150			1.5kg		EMHSR-0057C0-017R5	
			42	205	4.8		392	276	240			24kg		EMHSP-0205C0-042R0	
			45	94	9		212	193	201			11kg		EMHSP-0094C0-045R0	
			52	238	4.8		512	311	240			32kg		EMHSP-0238C0-052R0	
			90	2.8	0.3		290	125	84			1.7kg		EMHSR-0002C8-090R0	
			340	51	19		1568	276	960			384kg		EMHSP-0051C0-340R0	
			Contact to us												Customized power solution

<Notes> 1. If the exact dimension, volume and weight for your requirements are not described in our standard modules please contact us directly for a customized solution.

Part number sys.



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