

Green-Cap (ELECTRIC DOUBLE LAYER CAPACITORS)

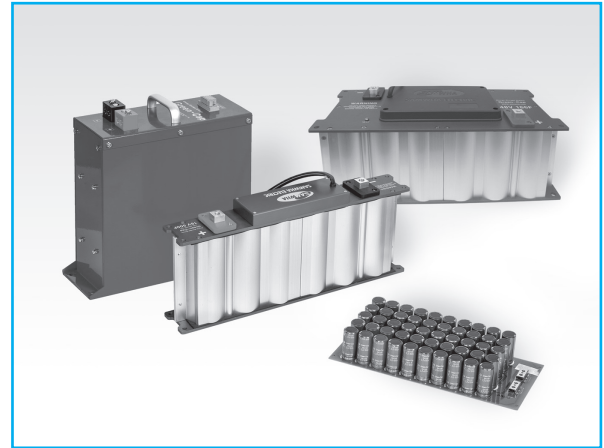


Green-Cap Module

- Low internal resistance
- Balancing and overvoltage protection of individual cell
- Efficient heat transfer to outside

Application

- Next Generation Vehicle(FCEV, HEV) & Heavy Duty Transportation
- Short term UPS and telecommunications
- Portable Power Tool
- Wind Turbine Pitch System
- Electric Scooter
- Heavy Duty Transportation
- Golf Car



● Product & Spec.

Item	Characteristics	
Capacitance tolerance	0% ~ +20%	
Operating temperature range	-40 ~ +65°C, -40 ~ +85°C	
Storage Temperature Range	-40 ~ +70°C	
Temperature characteristics	Capacitance change	Within $\pm 5\%$ of initial value at +20°C
	Internal resistance change	Within 150% of initial value at +20°C
Endurance (65°C)	Test time	1500 hours (5.4V products are for 1000 hours)
	(1) Capacitance change	▲ Within $\pm 30\%$ of initial specified value
		● Within $\pm 20\%$ of initial specified value
	(2) Internal resistance change	Less than 100% of specified value
Shelf life (65°C)	After 1500 hours no load test same as endurance	
Life Time at RT ⁽¹⁾⁽²⁾ (held continuously at Rated Voltage)	10 years	(1) $I \Delta CI < 30\%$ and $\Delta ESR < 200\%$ of initially specified value, respectively and $LC < \text{specified value}$
Cycle Life (25°C) ⁽¹⁾⁽²⁾	▲	500,000 cycles
	●	1,000,000 cycles

Part Number	Rated Voltage	Capacitance (F)	ESR, 1KHz (mΩ)	ESR, DC (mΩ)	Max. Continuous Current (A)		Max. Peak Current	Max. Stored Energy (Wh)	Specific Energy (Wh/kg)	Dimension(mm)			Weight (kg)	Cycle Life
					$\Delta T=15^\circ\text{C}$	$\Delta T=40^\circ\text{C}$				L	W	H		
DM00540015W01002	5.4	1.5	120	180	0.2	0.33	3.2	0.006	1.79	22.0	8.5	16.5	0.003	▲
DM00540025W01002	5.4	2.5	100	140	0.33	0.55	5.0	0.010	2.03	22.0	10.5	21.0	0.005	▲
DM00540050W01002	5.4	5.0	60	100	0.65	1.09	9.0	0.020	2.89	32.0	10.5	21.0	0.007	▲
DM01500666W01006	15	66.6	23.0	27.4	12	20	191.0	2.08	2.60	247	46	76	0.8	▲
DM01622000W01006	16.2	200	2.5	3.6	84	10	941.8	7.29	1.78	418	68	115	4.1	●
DM01622666W01006	16.2	266.6	2.2	3.2	90	150	1165.4	9.72	2.11	418	68	126	4.6	●
DM01623333W01006	16.2	333.3	1.8	2.5	100	167	1472.7	12.15	2.38	418	68	143	5.1	●
DM01625000W01006	16.2	500	1.4	2.0	120	200	2025.0	18.23	3.04	418	68	179	6	●
DM04860666W01018	48.6	66.6	7.6	10.8	84	140	941.8	21.87	2.19	418	191	115	10	●
DM04860888W01018	48.6	88.8	6.5	9.7	90	150	1165.4	29.16	2.54	418	191	126	11.5	●
DM04861111W01018	48.6	111.1	5.4	7.6	100	167	1472.7	36.45	2.92	418	191	143	12.5	●
DM04861666W01018	48.6	166.6	4.3	6.0	120	200	2025.0	54.68	3.65	418	191	179	15	●
DM07500360W01090	75	36	38.4	45.6	12	20	511.0	28.13	2.25	460	153	282	12.5	▲
DM09000100W01036	90	10	138.2	164.2	12	20	170.3	11.25	1.41	290	110	268	8	▲
DM12960625W01048	129.6	62.5	11.5	16.1	120	200	2025.0	145.80	2.43	713	496	222	60	●

Note : Other Green-Cap modules are supplied on custom-made basis. Dimension and Weight could be changed.
The contents of this document are subject to change without notice.