

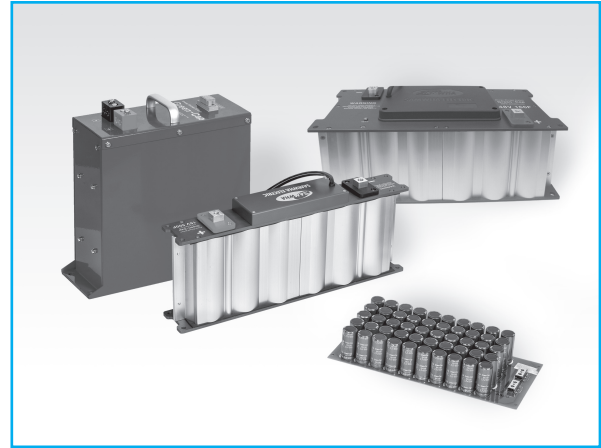
Green-Cap (ELECTRIC DOUBLE LAYER CAPACITORS)

DM 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 or -25 ~ +70°C | |
| Storage Temperature Range | -40 ~ +70°C | |
| Temperature characteristics | Capacitance change | Within $\pm 5\%$ of initial value at +20°C |
| | Internal resistance | Within 150% of initial value at +20°C |
| Endurance (65°C) | Test time | 1500 hours |
| | Capacitance change | Within $\pm 30\%$ of initial specified value |
| | Internal resistance | Within 100% of initial specified value |
| Shelf life (65°C) | After 1500 hours no load test same as endurance | |
| Life Time at RT ⁽¹⁾ | 10 years | (1) $ \Delta CI < 30\%$ and $\Delta ESR < 200\%$ of initially specified value, respectively and LC < specified value (2) Cycle : between rated voltage and half rated voltage under constant current at 25°C |
| Cycle Life (25°C) ⁽¹⁾⁽²⁾ | 500,000 cycles | |

| Part Number | Rated Voltage | Max. Operating Voltage | Capacitance (F) | ESR, 1KHz (mΩ) | ESR, DC (mΩ) | Max. Continuous Current (A) | Max. Peak Current (A) | Stored Energy (Wh) | Specific Energy (Wh/kg) | Cell Composition | | Dimension(mm) | | | Weight (kg) |
|------------------|---------------|------------------------|-----------------|----------------|--------------|-----------------------------|-----------------------|--------------------|-------------------------|------------------|----|---------------|-----|-----|-------------|
| | | | | | | | | | | ITEM | EA | L | W | T | |
| DM00500015W01002 | 5 | 5.4 | 1.5 | 110 | 143 | 0.2 | 3.1 | 0.005 | 1.47 | 2.7V 3F | 2 | 23 | 10 | 18 | 0.0034 |
| DM00500025W01002 | 5 | 5.4 | 2.5 | 53 | 95 | 0.3 | 5.3 | 0.009 | 1.80 | 2.7V 5F | 2 | 23 | 12 | 22 | 0.005 |
| DM01500666W01006 | 15 | 16.2 | 66.6 | 18 | 30 | 20 | 167 | 2.43 | 4.05 | 2.7V 400F | 6 | 117 | 81 | 80 | 0.6 |
| DM01505000W01006 | 15 | 16.2 | 500 | 1.7 | 2.4 | 150 | 1705 | 15.63 | 2.61 | 2.7V 3000F | 6 | 417 | 68 | 157 | 6 |
| DM04501111W01018 | 45 | 48.6 | 111.1 | 5.6 | 8.1 | 100 | 1316 | 31.25 | 2.40 | 2.7V 2000F | 18 | 418 | 191 | 121 | 12 |
| DM04501666W01018 | 45 | 48.6 | 166.6 | 5.2 | 6.3 | 150 | 1705 | 46.88 | 3.13 | 2.7V 3000F | 18 | 481 | 191 | 157 | 14 |
| DM07500266W01060 | 75 | 81 | 26.6 | 75 | 52.5 | 40 | 333 | 20.83 | 2.60 | 2.7V 400F | 60 | 372 | 316 | 90 | 8 |
| DM12500600W01050 | 125 | 135 | 60 | 15 | 20 | 150 | 1705 | 130.21 | 2.00 | 2.7V 3000F | 50 | 1000 | 350 | 310 | 70 |

Note: Other Green-Cap modules are supplied on custom-made basis. Dimension and Weight could be changed without notice.