

DMC series High capacitance & current for DC Applications



FEATURES

- Dry type structure
- High ripple current handling
- For low inductance applications
- Self-healing property
- Available with male and female terminals
- Aluminum case with resin sealing

APPLICATIONS

- Wind power/ Solar power
- Electric vehicle/ Frequency converter
- UPS/ power supply,
- EV/ GTO snubbing

DMC SERIES CYLINDRICAL DC CAPACITOR

DMC is a metal cylindrical capacitor for DC link and DC filtering applications. CABO uses the most advanced metallized film technology for long life and high reliability in DC Link applications. This series combines high capacitance and very high ripple current capability needed for today's inverter designs for wind, solar, fuel cells, UPS systems and more. With low inductance, high voltage terminations and ultra-high ripple current capability that meet your specific application requirements.

ELECTRICAL CHARACTERISTICS

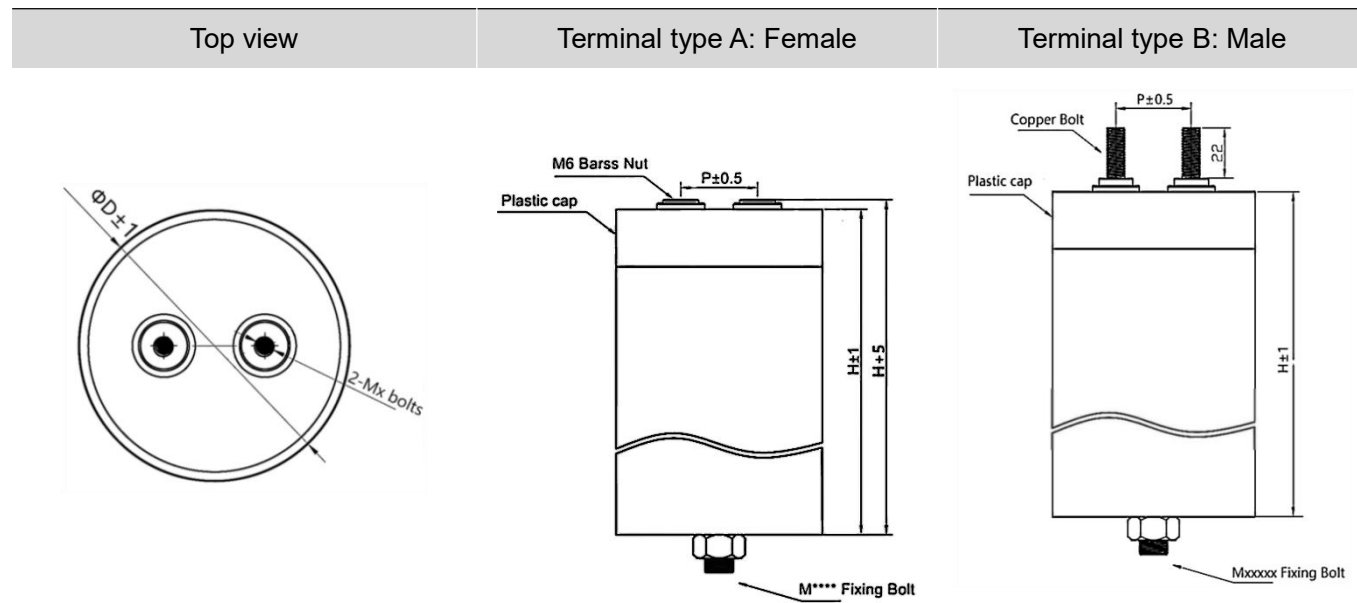
Capacitance Range:	10~3,000µF
Operating Temperature:	-40°C~+85°C standard (105°C optional)
Capacitance Tolerance:	±5%(J); ±10% (K)
Rated Voltage (U _n):	400~5000V _{dc}
Test Voltage between Terminals:	1.5U _n 60s
Insulation Resistance:	R*C ≥ 5000s @100V _{dc} , 60s
Max. Altitude:	<2000m
Flame Resistance:	UL 94V-0
Lifetime Expectancy:	≥100,000Hours @U _n , θ _{h.s.} ≤70°C
Max Torque of terminals:	6.0Nm
Failure Rate:	50FIT

Metal can cylindrical DC Capacitors



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OUTLINE DRAWING



COMMON DESIGN

Rated Voltage (U_{ndc})	Rated cap. (μF)	Dimensions (mm)		I_{max} (A) @40°C	Weight (kg)
	C_n	ΦD	H		
800	400	76	120	66	0.7
	560	76	174	70	1.0
	580	86	136	70	1.1
	1100	86	252	70	1.8
	1200	116	140	80	1.75
	1200	116	158	100	2.0
	1800	116	230	100	2.8
	3200	136	295	100	4.9
1100	180	76	95	59	0.6
	300	76	140	53	0.75
	330	86	120	63	1.0
	420	86	136	65	1.1
	420	86	155	70	1.25
	500	86	174	70	1.3
	750	86	252	70	1.8
	750	116	140	75	1.75
	920	116	174	100	2.2
	1200	116	230	100	2.8
	2200	136	295	100	4.9

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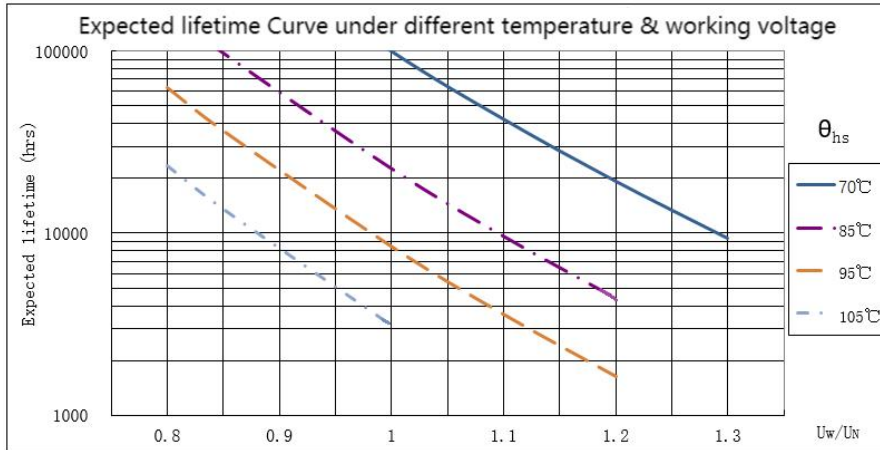
Rated Voltage (U_{ndc})	Rated cap.(μF)	Dimensions(mm)		I_{max} (A) @40°C	Weight (kg)
	C_n	ΦD	H		
1,200	200	76	120	53	0.7
	330	86	140	57	1.15
	330	86	155	70	1.25
	420	106	140	69	1.67
	500	116	120	75	1.5
	720	116	174	100	2.2
	1700	136	295	100	4.9
1,300	330	136	141	66	1.64
	520	116	140	71	1.75
	820	116	230	100	2.8
	1500	136	295	100	4.9
2,000	180	86	225	78	1.65
	220	116	140	69	1.85
	250	136	120	78	2.15
	360	116	225	100	2.85
	500	136	225	100	3.9
3,000	75	116	120	69	1.65
	100	116	174	94	2.35
	120	136	140	67	2.5
	200	136	225	100	3.9
3,600	54	116	140	63	1.9
	75	136	140	71	2.55
	120	136	225	100	4.05
	150	136	265	100	4.7
4,000	38	86	225	70	1.7
	52	136	120	71	2.25
	100	136	225	100	4.05

* CABO reserves the right to make changes without further notice to any products herein to improve reliability, function or design.

* Max. permissible voltages within one day: (1.1 U_n , 30% of on-load duration) (1.15 U_n , 30min) (1.2 U_n , 5min) (1.3 U_n , 1min) (1.5 U_n , 100ms).

* Other values and dimensions are available on request.

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For capacitors application, various factors will affect the expected life of capacitors such as voltage, temperature, current, network harmonics, lighting or radiation and other unknown factors. The above lifetime curve only considers the effects of voltage and temperature. Based on the qualified results of long-term durability test, the lifetime curve of the capacitor under different working conditions is calculated by using the theoretical calculation formula of lifetime. Therefore, the lifetime curve is only used as a reference for selection, and does not represent the actual service life of the capacitor, nor does it represent the quality assurance requirements.

RELATED CAPACITOR SERIES



CABO is a leading brand of high reliability capacitors, providing specifically designed solutions to meet the reliability needs of industrial, military, medical and specialized applications worldwide.

As a well-known brand of China, CABO capacitors are among the world’s most reliable component. Focus on High-End global markets and High reliability request fields, providing customization services. With world-class design, testing and manufacturing facilities in China, enable the quick turn-around for fast and mass delivery worldwide.

Our extensive custom design and development capabilities coupled with standardized mass production capacity offerings allow us to be a competitive option for power electronics industry.