

CDCL STZ DATASHEET



MODEL	CDCL STZ SERIES
PART NUMBER	CDCL0650C0-0002R7STZ
	CDCL1200C0-0002R7STZ
	CDCL1500C0-0002R7STZ
	CDCL2000C0-0002R7STZ
	CDCL3000C0-0002R7STZ

Version	Revision of historical records
V2019-1	The First Release

FEATURES
Low ESR & High Power Density
Over 1000,000 duty cycles
Threaded connection

APPLICATIONS	
EV/HEV	Heavy duty machinery
Hybrid drive trains	Locomotive engine startup system
Mass transportation braking energy recovery system	

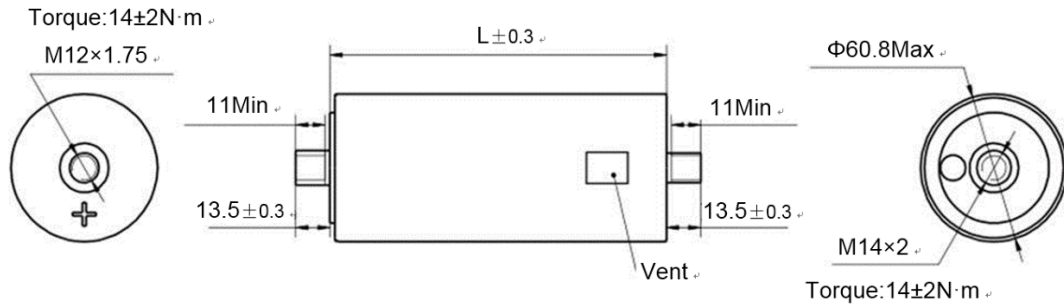
CONSTRUCTION & DIMENSIONS

1) Construction

Inside structure: fold anode and cathode electrode with separator

Outer structure: aluminum case, insulating sleeve

2) Dimensions



PRODUCT	DIMENSION (mm)		
	D(Max.)	L1	L2
650F	60.8	51.5	57.9
1200F	60.8	74	80.4
1500F	60.8	85	91.4
2000F	60.8	102	108.4
3000F	60.8	138	144.4

SPECIFICATIONS

Items	Characteristics
Operating Voltage	2.7V DC
Surge Voltage	2.85V DC
Operating Temperature Range	-40°C to 65°C
Capacitance Tolerance	0% to +20% (25°C)
Temperature Performance (-40°C to 65°C)	$\Delta C \leq 5\%$ of initial value@ 25°C $\Delta ESR \leq 50\%$ of rated value
Life (1,500 hours @ 65°C, 2.7V DC)	$\Delta C \leq 20\%$ of initial value $\Delta ESR \leq 100\%$ of initial value
Cycle life (1,000,000 cycles between V_R and $1/2V_R$)	$\Delta C \leq 20\%$ of initial value $\Delta ESR \leq 100\%$ of initial value

STANDARD PRODUCT

CAP (F)	Part Number	ESR(mΩ)		LC (mA, RT 72hrs)	MAX. Energy Stored (Wh)	Max. Energy Density (Wh /Kg)	Max. Continuous Current (15/40°C, A)	Max. Peak Current (A)	Typical Thermal Resistance (R th, °C/W)	Typical Thermal Capacitance, (C th, J/°C)	Typical Mass (g)
		AC@ 1kHz Max.	DC Max.								
650	CDCL0650C0-0002R7STZ	0.70	0.80	1.8	0.66	3.0	54/88	577	6.4	261	220
1200	CDCL1200C0-0002R7STZ	0.40	0.58	2.5	1.22	4.1	72/117	955	5.0	338	293
1500	CDCL1500C0-0002R7STZ	0.33	0.47	3	1.52	4.4	84/137	1188	4.5	391	342
2000	CDCL2000C0-0002R7STZ	0.25	0.35	3.5	2.03	5.0	104/170	1588	4.0	458	402
3000	CDCL3000C0-0002R7STZ	0.22	0.29	5.2	3.04	5.5	129/211	2166	3.1	645	548

Product dimensions are for reference only unless otherwise identified. Product dimensions and specifications may change without notice.

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