

CDCL STZ DATASHEET



MODEL	CDCL STZ SERIES
PART NUMBER	CDCL0650C0-002R85STZ
	CDCL1200C0-002R85STZ
	CDCL1500C0-002R85STZ
	CDCL2000C0-002R85STZ
	CDCL3000C0-002R85STZ

Version	Revision of historical records
V2019-1	The First Release
V2020-1	Add Product Picture
V2020-2	Version Update

FEATURES
Low ESR & High Power Density
Over 1,000,000 duty cycles
Threaded connection

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

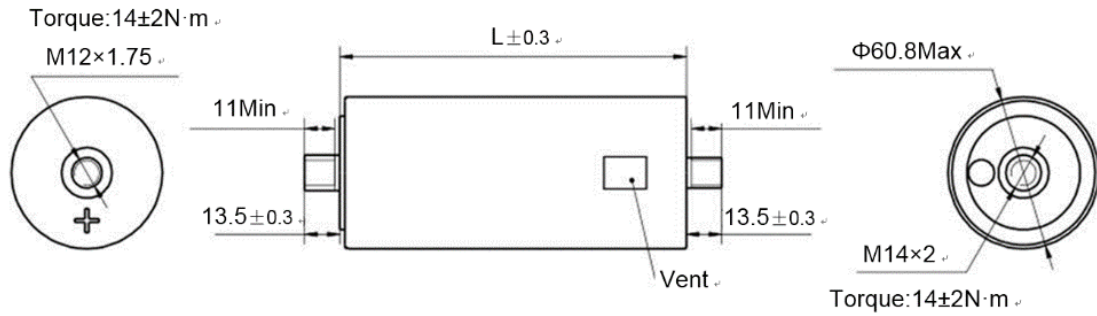
CONSTRUCTION & DIMENSIONS

1) Construction

Inside structure: fold anode and cathode electrode with separator

Outer structure: aluminum case, insulating sleeve

2) Dimensions



PRODUCT	DIMENSION (mm)
	$L \pm 0.3$
650F	51.5
1200F	74
1500F	85
2000F	102
3000F	138

SPECIFICATIONS

Items	Characteristics
Operating Voltage	2.85V DC
Surge Voltage	3.0V 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 rated value @ 25°C $\Delta ESR \leq 50\%$ of rated value
Life (1,500 hours @ 65°C, 2.85V DC)	$\Delta C \leq 20\%$ of rated value $\Delta ESR \leq 100\%$ of rated value
Cycle life (1,000,000 cycles between V_R and $1/2V_R$)	$\Delta C \leq 20\%$ of rated value $\Delta ESR \leq 100\%$ of rated value

DETAIL SPECIFICATIONS

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	CDCL0650C0-002R85STZ	0.77	0.88	3.1	0.73	3.3	52/84	589	6.4	261	220
1200	CDCL1200C0-002R85STZ	0.44	0.64	5.8	1.35	4.6	68/112	969	5.0	338	293
1500	CDCL1500C0-002R85STZ	0.36	0.52	7.3	1.69	4.9	80/131	1204	4.5	391	342
2000	CDCL2000C0-002R85STZ	0.28	0.39	9.7	2.26	5.6	99/162	1610	4.0	458	402
3000	CDCL3000C0-002R85STZ	0.24	0.32	14.5	3.38	6.2	123/201	2184	3.1	645	548

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NINGBO CRRC NEW ENERGY TECHNOLOGY CO.,LTD.

Add: No.199 Shidai Road, Wuxiang Town, Yinzhou District,
Ningbo, Zhejiang, China

Email: info@spscap.com

Website: www.spscap.com

