

# CDCL STB DATASHEET



MODEL	CDCL STB SERIES
PART NUMBER	CDCL3000C0-002R85STB

Version	Revision of historical records
V2020-1	The First Release

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	

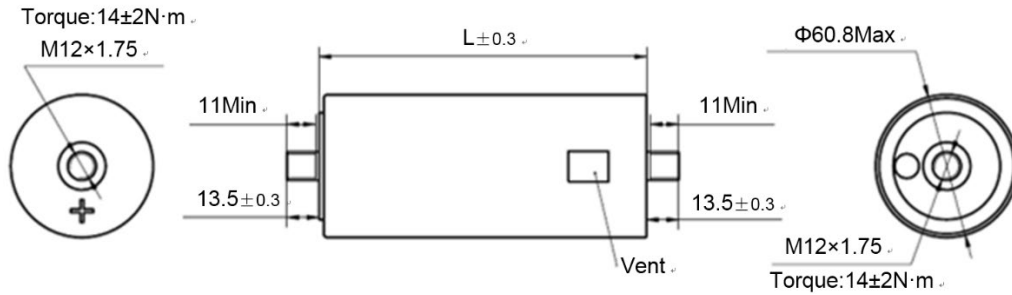
## CONSTRUCTION & DIMENSIONS

### 1) Construction

Inside structure: fold anode and cathode electrode with separator

Outer structure: aluminum case, insulating sleeve

### 2) Dimensions



PRODUCT	DIMENSION (mm)
	$L \pm 0.3$
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 <sub>th</sub> , °C/W)	Typical Thermal Capacitance, (C <sub>th</sub> , J/°C)	Typical Mass (g)
		AC@ 1kHz Max.	DC Max.								
3000	CDCL3000C0-002R85STB	0.24	0.32	14.5	3.38	6.2	123/201	2184	3.1	645	548

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