

# CDCL WLZ DATASHEET



<b>MODEL</b>	<b>CDCL WLZ SERIES</b>
<b>PART NUMBER</b>	CDCL4000C0-002R85WLZ

<b>Version</b>	<b>Revision records</b>
S2021-1	Trial Version

<b>FEATURES</b>
Low ESR & High Power Density
500,000 duty cycles
Laser welding terminals

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

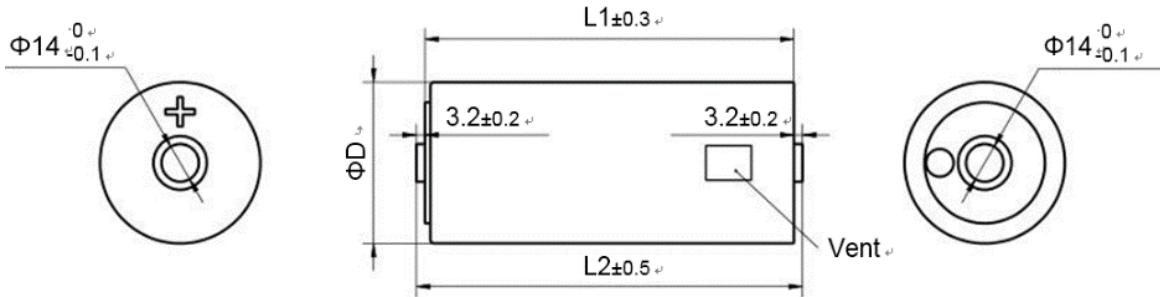
## CONSTRUCTION & DIMENSIONS

### 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
4000F	60.8	138	144.4

## 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)	$C_{end} \geq 95\%$ of rated value @ 25°C $ESR_{end} \leq 150\%$ of rated value
Life (1,500 hours @ 65°C, 2.85V DC)	$C_{end} \geq 80\%$ of rated value $ESR_{end} \leq 200\%$ of rated value
Cycle life (500,000 cycles between $V_R$ and $1/2V_R$ )	$C_{end} \geq 80\%$ of rated value $ESR_{end} \leq 200\%$ 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.								
4000	CDCL4000C0-002R85WLZ	0.22	0.30	10	4.51	9.0	127/201	2591	3.1	588	500

All rights reserved. Design and specifications are subjected to change without notice.

### NINGBO CRRC NEW ENERGY TECHNOLOGY CO.,LTD.

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

Email: [info@spscap.com](mailto:info@spscap.com)

Website: [www.spscap.com](http://www.spscap.com)

