

# DATASHEET

## 3.0V CELL SP SERIES



<b>PRODUCT CODES</b>	<b>CTC 00XXXC0 0003V0 SP00</b>
<b>DATASHEET VERSION</b>	<b>V2021-0 of 13/07/2021</b>

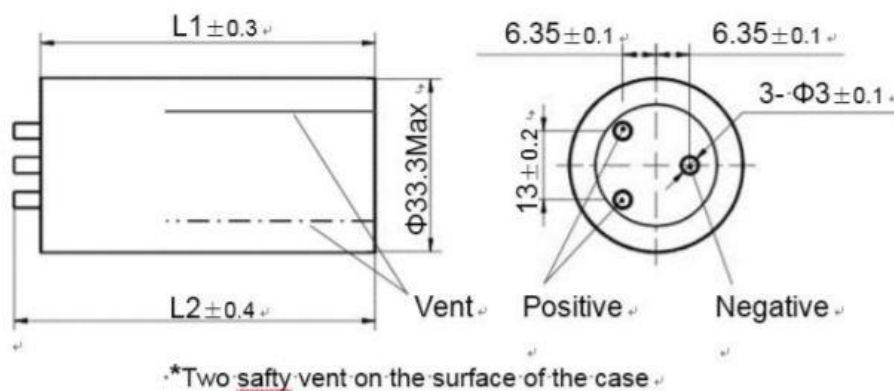
CapTop 3.0V Cell SP Series has Enhanced ESR & High Power Density, over 1,000,000 duty cycles, long life of high current pulse, soldering pin connection and low maintenance needs. Suitable for applications like industrial, pitching control system of wind turbine generator, UPS and backup power supply, smart grid, electronic tools and police flash lights, EV/HEV, railway transportation.

### CONSTRUCTION & DIMENSIONS

#### 1) Construction

Inside structure: : fold anode and cathode electrode with separator.  
Outer structure: aluminum case, insulating sleeve.

#### 2) Dimensions



Product Codes	L/mm		
	D (Max.)	L1	L2
CTC 00350C0 0003V0 SP00	35	63.8	68.7
CTC 00450C0 0003V0 SP00	35	79.8	84.7
CTC 00500C0 0003V0 SP00	35	79.8	84.7
CTC 00600C0 0003V0 SP00	35	93.8	98.7
CTC 00720C0 0003V0 SP00	35	112.8	118.7
CTC 00800C0 0003V0 SP00	35	112.8	118.7

SPECIFICATIONS	
Items	Characteristics
Operating Voltage (DC)	3.0 V
Surge Voltage (DC)	3.15 V
Operating Temperature Range	-40 °C to 65 °C
Capacitance Tolerance	0% a +20% (25 °C)
Temperature Performance (-40 °C to 65 °C)	$\Delta C \leq 5\%$ of rated value @ 25 °C ESR $\leq 50\%$ of rated value
Life (1,500 hours @65 °C, 3.0V DC)	$\Delta C \leq 20\%$ of rated value ESR $\leq 100\%$ of rated value

STANDARD PRODUCT											
CAP (F)	Product Code	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.								
350	CTC 00350C0 0003V0 SP00	1.5	2.5	0.5	0.44	6,77	24/39	252	10.1	75	65
450	CTC 00450C0 0003V0 SP00	1.5	2.5	0.9	0.56	7.0	27/43	285	8.4	100	80
500	CTC 00500C0 0003V0 SP00	1.5	2.5	1.0	0.63	7.87	27/43	300	8.4	100	80
600	CTC 00600C0 0003V0 SP00	1.4	2.4	1.2	0.75	7,14	29/47	332	7.4	130	105
720	CTC 00720C0 0003V0 SP00	1.3	1.8	1.4	0.9	8.0	36/59	423	6.3	140	112
800	CTC 00800C0 0003V0 SP00	1.3	1.8	1.5	1.0	8,93	36/59	423	6.3	140	112

\*All values are provisional and may vary

Product dimensions are for reference only unless otherwise identified.  
Product dimensions and specifications may change without notice.  
Product complies to the following certification requirements:



Version	Date	Revision History
V2021-0	13/07/2021	Original Version

## CAPTOP S.R.L

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