

LC0200-380-ASW



APPLICATIONS

- Start-up Power supply
- Industrial Backup Power
- Energy Harvesting
- Remote Power Supply
- Peak Load Shaving



FEATURES & ADVANTAGES

- 1M Cycles Lifetime
- 10 Years Calendar Life
- Low Self-Discharge
- Safe: No Thermal Runaway
- High Power Density



Canacitanas	Rated ¹	200F
Capacitance	Minimum initial	200F
	Nominal	3.8V DC
Voltage	Minimum	2.2V DC
	Maximum ²	4.2V DC
ESR	Typical	30mΩ
ESN	Maximum initial	50mΩ
Current	Maximum continuous current (ΔT= 15°C) ³	9A RMS
Current	Maximum continuous current (ΔT= 40°C) ³	25A RMS
Energy Storage	Max energy ⁴	0.4Wh
	Usable energy⁵	0.27Wh
	Volumetric energy density ⁶	15.4Wh/liter
	Gravametric energy density ⁷	8.9Wh/kg
Self Discharge	arge Voltage drop after 6 months at 25°C <14%	

Temperature

Standards, Safety & Environmental				
Characteristics	Storage temperature range	-10°C to +70°C		
Temperature	Operating temperature range	-10°C to +65°C		

Short circuit current 76A • This product may vent or rupture if overcharged, reverse charged incinerated or heated above 100°C

• Do not crush, mutilate, or disassemble

• Do not dispose of unit in trash

Service Lifetime

Safety

	Product held at nominal voltage in 65°C environment for 1000 hours			
Endurance	Change in capacitance (% drop from rated)	≤20%		
	Change in ESR (% increase from maximum initial)	≤100%		
	Product held at rated voltage in 25°C environment			
DC Life	Life (projected)	10+ years		
DC Life	Change in capacitance (% drop from rated)	≤20%		
	Change in ESR (% increase from maximum initial)	≤100%		
	Cycling from V _{nom} to V _{min} under constant current in 25°C environment			
Cycle Life	Life (projected)	>1M cycles		
Cycle Life	Change in capacitance (% drop from rated)	≤20%		
	Change in ESR (% increase from maximum initial)	≤100%		
Ctorogo Life	Stored uncharged in original packaging in 25°C environment			
Storage Life	Life	4 years		

Physical Characteristics

Mechanical	Vibration	IEC60068-2-6, SAE J380
Mechanical	Shock	IEC60068-2-27, SAE J2464

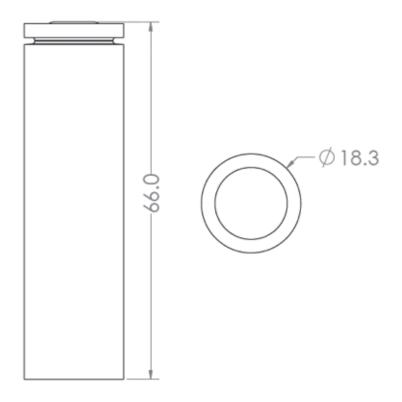








Outline Drawings:



Weight and Size:

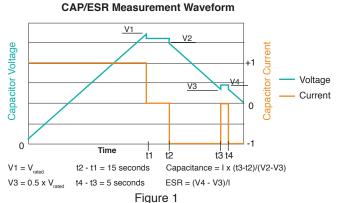
Weight: 30g | **Size:** 66.0 L/mm, 18.3 D/mm

Naming Rules:

	Туре	Capacaitance	Dash	Rated Voltage	Dash	Termination
L	Lithium Ion Capacitor Cell	0200 = 200F	-	380 = 3.8V	-	ASW = Axial Spot Weld

Notes:

1. Measure capacitance and DC internal resistance at 25°C under 10A CC test current per Figure 1



2. Maximum voltage is non-repeatable and duration cannot exceed 1s

3.
$$\Delta T = I_{rms}^{2} X ESR X R_{ca}$$

5.
$$0.5C(V_{nom}^2 - V_{min}^2)/3600$$

6. Wh_{usable}
$$\sqrt{\frac{\pi r^2(mm) \times L(mm)}{1 \times 10^6}}$$

- 7. Wh_{usable}/weight(kg)
- Specifications are subject to change without notice.