



**Physical Specification**

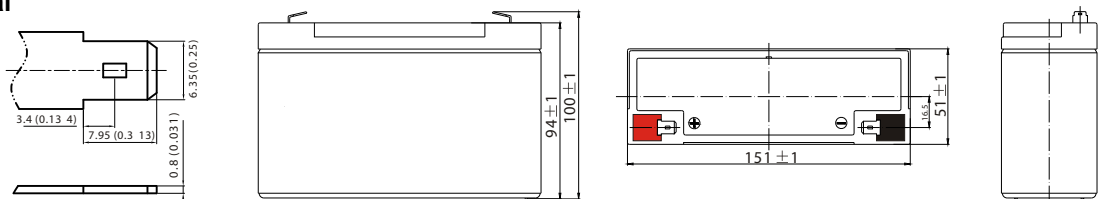
Part Number:	<b>CXL9-6</b>
Length:	<b>151 ± 3 mm ( 5.94 inches)</b>
Width:	<b>51 ± 3 mm ( 2.01 inches)</b>
Container Height:	<b>94 ± 3 mm ( 3.70 inches)</b>
Total Height (with terminal):	<b>100 ± 3 mm ( 3.94 inches)</b>
Approx Weight:	<b>Approx 1.7 Kg (3.75 lbs)</b>

**Specifications**

	Nominal Voltage	6V
	Nominal Capacity (10HR)	9AH
<b>Terminal Type</b>	Standard Terminal	T1
	Optional Terminal	T2
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
<b>Rated Capacity</b>	9.540 AH/0.48A	(20hr,1.80V/cell, 25°C / 77°F)
	9.0 AH/0.90A	(10hr,1.80V/cell, 25°C / 77°F)
	7.81 AH/1.56A	(5hr,1.75V/cell, 25°C / 77°F)
	7.11 AH/2.37A	(3hr,1.75V/cell, 25°C / 77°F)
	5.54 AH/5.54A	(1hr,1.60V/cell, 25°C / 77°F)
<b>Max Discharge Current</b>	135A (5s)	
<b>Internal Resistance</b>	Approx 18.0mΩ	
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 2.7A. Voltage 7.2V ~ 7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 6.75V ~ 6.9V at 25°C (77°F) Temp. Coefficient -10mV/°C
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
<b>Design Floating Life at 20°C</b>	15 Years	
<b>Self Discharge</b>	Canbat batteries may be stored for up to 6 months at 25°C(77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

**Dimensions**

**T1 Terminal**



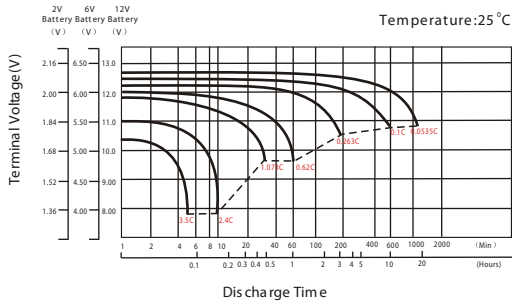
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.6	9.69	8.26	6.74	5.10	4.28	2.73	2.16	1.75	1.42	1.24	0.995	0.850	0.473
1.80V/cell	14.8	11.7	9.76	7.96	5.93	4.79	2.98	2.33	1.87	1.52	1.33	1.056	0.900	0.477
1.75V/cell	16.3	12.8	10.5	8.26	6.16	5.01	3.09	2.37	1.92	1.56	1.37	1.074	0.909	0.482
1.70V/cell	17.8	13.6	11.0	8.60	6.40	5.17	3.21	2.44	1.96	1.60	1.40	1.089	0.918	0.491
1.65V/cell	19.2	14.5	11.7	9.07	6.56	5.35	3.30	2.54	2.03	1.65	1.43	1.106	0.937	0.497
1.60V/cell	20.8	15.5	12.5	9.58	6.84	5.54	3.41	2.62	2.10	1.70	1.46	1.117	0.947	0.500

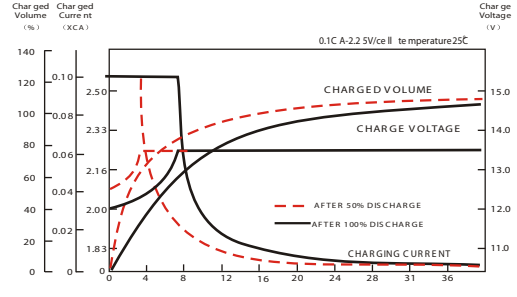
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	21.8	18.4	15.9	13.1	9.98	8.40	5.40	4.29	3.49	2.83	2.49	1.998	1.711	0.953
1.80V/cell	27.6	22.0	18.5	15.2	11.5	9.36	5.85	4.59	3.70	3.02	2.66	2.115	1.810	0.960
1.75V/cell	29.8	23.7	19.7	15.7	11.8	9.75	6.05	4.66	3.78	3.09	2.72	2.146	1.826	0.968
1.70V/cell	31.8	24.9	20.5	16.2	12.3	10.0	6.27	4.78	3.87	3.16	2.77	2.175	1.843	0.986
1.65V/cell	34.0	26.3	21.7	17.0	12.5	10.3	6.41	4.96	3.99	3.24	2.83	2.203	1.878	0.997
1.60V/cell	36.1	27.7	22.8	17.8	12.9	10.6	6.59	5.09	4.10	3.34	2.88	2.220	1.894	1.001

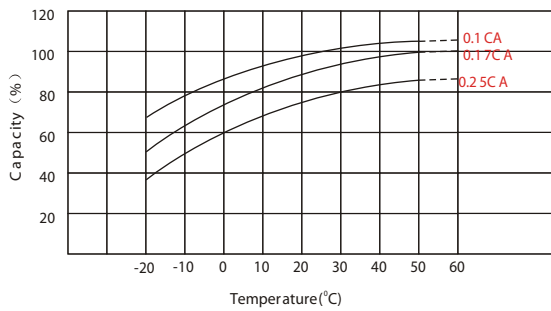
### Discharge Characteristics



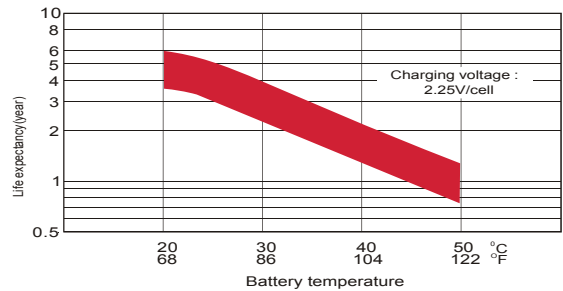
### Float Charging Characteristics



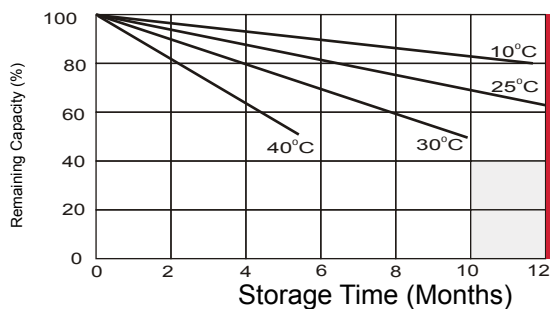
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Self Discharge Characteristics



- A**
- B**
- C**

**A** No supplementary required  
(Carryout supplementary charge before use if 100% capacity is required.)

**B** Supplementary charge required before use. Optional charging way as below:  
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.  
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

**C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.

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