



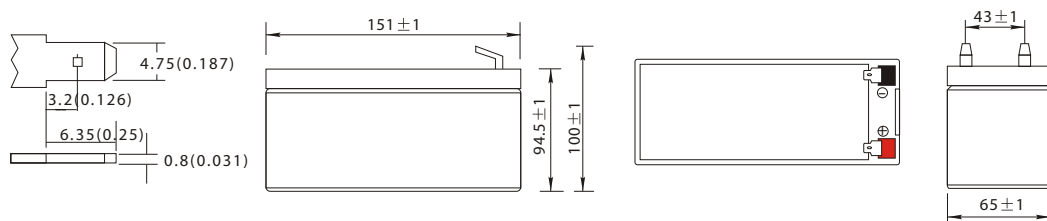
Physical Specification	
Part Number:	<b>CXL7-12</b>
Length:	<b>151 ± 3 mm ( 5.94 inches)</b>
Width:	<b>65 ± 3 mm ( 2.56 inches)</b>
Container Height:	<b>93.5 ± 3 mm ( 3.70 inches)</b>
Total Height (with terminal):	<b>99 ± 3 mm ( 3.94 inches)</b>
Approx Weight:	<b>Approx 2.45 Kg (5.40 lbs)</b>

**Specifications**

	Nominal Voltage	12V	
	Nominal Capacity (10HR)	7AH	
<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>	7.42 AH/0.37A	(20hr,1.80V/cell, 25°C / 77°F)	
	7.00 AH/0.70A	(10hr,1.80V/cell, 25°C / 77°F)	
	6.07 AH/1.21A	(5hr,1.75V/cell, 25°C / 77°F)	
	5.53 AH/1.84A	(3hr,1.75V/cell, 25°C / 77°F)	
	4.31 AH/4.31A	(1hr,1.60V/cell, 25°C / 77°F)	
<b>Max Discharge Current</b>	105.0A (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 (32 ~ 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 2.1A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°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(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.		

**Dimensions**

■ **T1 Terminal**



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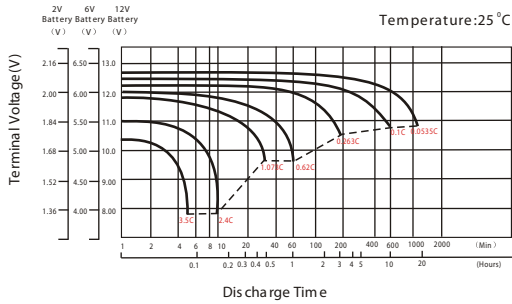
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.03	7.53	6.42	5.25	3.97	3.33	2.12	1.68	1.36	1.10	0.97	0.77	0.661	0.368
1.80V/cell	11.5	9.10	7.59	6.19	4.61	3.73	2.32	1.81	1.46	1.18	1.04	0.82	0.700	0.371
1.75V/cell	12.7	9.9	8.17	6.43	4.79	3.90	2.40	1.84	1.49	1.21	1.07	0.84	0.707	0.375
1.70V/cell	13.8	10.6	8.58	6.69	4.98	4.02	2.50	1.89	1.53	1.24	1.09	0.85	0.714	0.382
1.65V/cell	14.9	11.3	9.12	7.06	5.10	4.16	2.57	1.98	1.58	1.28	1.11	0.86	0.729	0.386
1.60V/cell	16.2	12.1	9.71	7.45	5.32	4.31	2.65	2.04	1.63	1.32	1.14	0.87	0.736	0.389

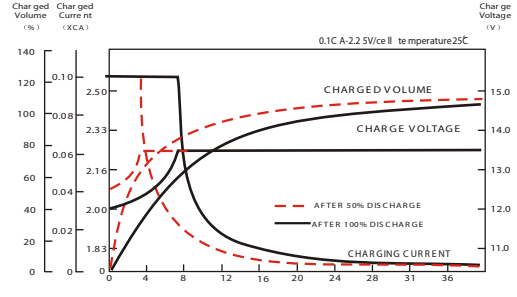
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.0	14.3	12.3	10.2	7.76	6.53	4.20	3.34	2.71	2.20	1.93	1.55	1.33	0.741
1.80V/cell	21.5	17.1	14.4	11.8	8.96	7.28	4.55	3.57	2.88	2.35	2.07	1.65	1.41	0.747
1.75V/cell	23.2	18.4	15.3	12.2	9.21	7.58	4.70	3.62	2.94	2.40	2.12	1.67	1.42	0.753
1.70V/cell	24.7	19.4	16.0	12.6	9.55	7.80	4.88	3.72	3.01	2.46	2.16	1.69	1.43	0.767
1.65V/cell	26.5	20.5	16.8	13.2	9.70	8.00	4.99	3.86	3.10	2.52	2.20	1.71	1.46	0.776
1.60V/cell	28.1	21.5	17.7	13.8	10.05	8.24	5.13	3.96	3.19	2.60	2.24	1.73	1.47	0.779

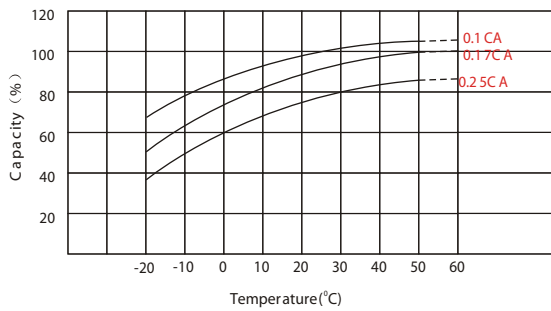
### Discharge Characteristics



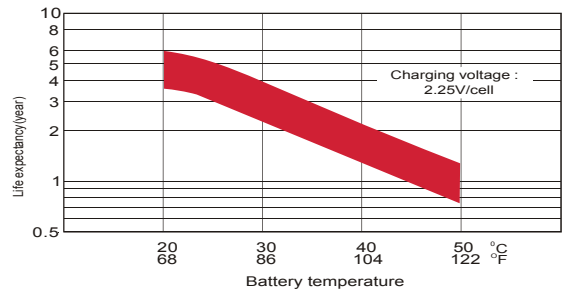
### Float Charging Characteristics



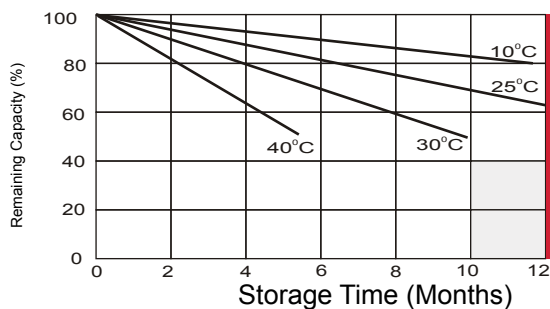
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Self Discharge Characteristics



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

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

- 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.

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

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