



**CBL8-4**

Awaiting Image

**Physical Specification**

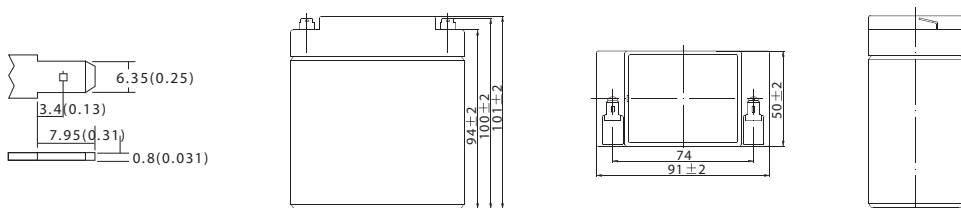
Part Number:	<b>CBL8-4</b>
Length:	<b>91 ± 2 mm (3.58 inches)</b>
Width:	<b>50 ± 2 mm (1.97 inches)</b>
Container Height:	<b>101 ± 2 mm (3.98 inches)</b>
Total Height (with terminal):	<b>101 ± 2 mm (3.98 inches)</b>
Approx Weight:	<b>Approx 0.97kg (2.14lbs)</b>

**Specifications**

	Normal Voltage	4V
	Normal Capacity (20HR)	8.0AH
<b>Terminal Type</b>	Standard Terminal	T2
	Optional Terminal	-
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	UL94:VO
<b>Rated Capacity</b>	8.00 AH/0.40A	(20hr, 1.80V/cell, 25°C / 77°F)
	7.44 AH/0.744A	(10hr, 1.80V/cell, 25°C / 77°F)
	6.80 AH/1.36A	(5hr, 1.75V/cell, 25°C / 77°F)
	6.12 AH/20.4A	(3hr, 1.75V/cell, 25°C / 77°F)
	5.02 AH/5.02A	(1hr, 1.60V/cell, 25°C / 77°F)
<b>Max Discharge Current</b>	120A (5s)	
<b>Internal Resistance</b>	Approx 11mΩ	
<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 2.4A. Voltage 4.8V ~ 5.0V at 25°C (77°F) Temp. Coefficient -10mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 4.5V ~ 4.6V at 25°C (77°F) Temp. Coefficient -6mV/°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>	5 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**



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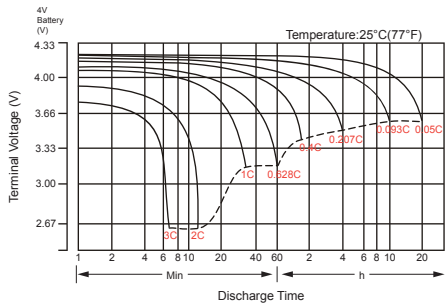
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.2	11.7	9.69	8.38	6.48	4.77	4.02	2.38	1.86	1.51	1.23	1.07	0.864	0.722	0.396
1.80V/cell	20.4	14.9	11.7	9.90	7.64	5.55	4.51	2.60	2.00	1.62	1.32	1.15	0.916	0.744	0.400
1.75V/cell	23.1	16.4	12.8	10.7	7.94	5.76	4.71	2.69	2.04	1.65	1.36	1.18	0.932	0.764	0.404
1.70V/cell	25.4	17.9	13.7	11.2	8.26	5.99	4.86	2.76	2.10	1.70	1.39	1.20	0.945	0.779	0.411
1.65V/cell	28.0	19.3	14.5	11.9	8.71	6.14	4.98	2.80	2.19	1.75	1.43	1.23	0.960	0.795	0.417
1.60V/cell	30.9	21.0	15.5	12.7	9.20	6.40	5.02	2.92	2.25	1.81	1.48	1.26	0.969	0.804	0.419

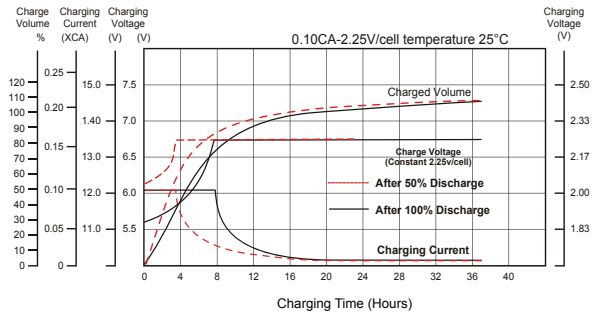
### Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.9	21.6	18.1	15.8	12.3	9.17	7.76	4.62	3.63	2.96	2.42	2.11	1.71	1.43	0.784
1.80V/cell	37.0	27.3	21.6	18.4	14.3	10.6	8.65	5.01	3.88	3.14	2.59	2.25	1.80	1.47	0.791
1.75V/cell	40.8	29.5	23.3	19.6	14.8	10.9	9.00	5.18	3.94	3.20	2.64	2.30	1.83	1.51	0.798
1.70V/cell	43.7	31.4	24.5	20.4	15.3	11.3	9.26	5.29	4.04	3.28	2.71	2.35	1.85	1.54	0.812
1.65V/cell	47.5	33.6	25.8	21.6	16.0	11.5	9.40	5.34	4.20	3.38	2.77	2.39	1.88	1.57	0.822
1.60V/cell	51.2	35.7	27.2	22.7	16.8	11.9	9.45	5.34	4.30	3.48	2.85	2.44	1.89	1.58	0.825

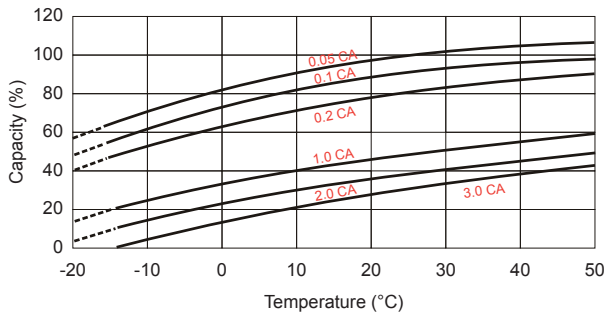
### Discharge Characteristics



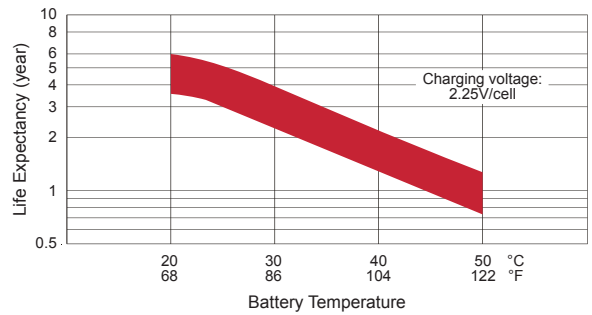
### Float Charging Characteristics



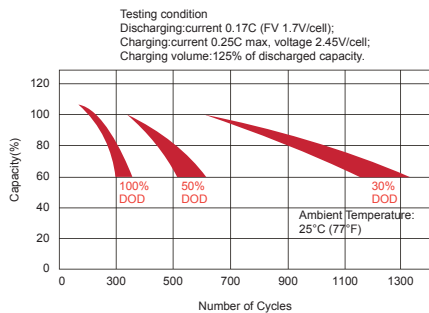
### Temperature Effects in Relation to Battery Capacity



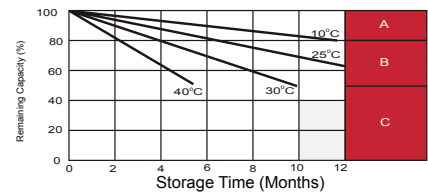
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



- A** 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.
- B** 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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