



**CBL 400-2**

Awaiting Image

**Physical Specification**

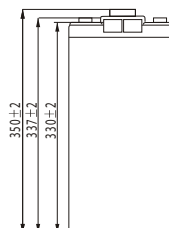
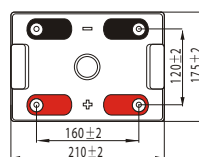
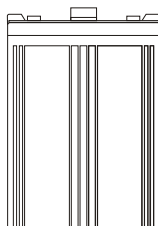
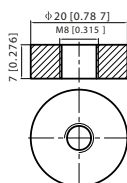
Part Number:	<b>CBL400-2</b>
Length:	<b>210 ± 2 mm (8.27 inches)</b>
Width:	<b>175 ± 2 mm (6.89 inches)</b>
Container Height:	<b>330 ± 2 mm (12.99 inches)</b>
Total Height (with terminal):	<b>350 ± 2 mm (13.78 inches)</b>
Approx Weight:	<b>Approx 25.7 kg (56.7 lbs)</b>

**Specifications**

	Normal Voltage	2V
	Normal Capacity (20HR)	400AH
<b>Terminal Type</b>	Standard Terminal	T11
	Optional Terminal	-
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	UL94:VO
<b>Rated Capacity</b>	420.0 AH/21.0A	(20hr, 1.80V/cell, 25°C / 77°F)
	400.0 AH/40.0A	(10hr, 1.80V/cell, 25°C / 77°F)
	342.0 AH/68.4A	(5hr, 1.75V/cell, 25°C / 77°F)
	300.0 AH/100.0A	(3hr, 1.75V/cell, 25°C / 77°F)
	240.0 AH/240.0A	(1hr, 1.60V/cell, 25°C / 77°F)
<b>Max Discharge Current</b>	3200A (5s)	
<b>Internal Resistance</b>	Approx 0.7mΩ	
<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 120.0A. Voltage 2.4V ~ 2.5V at 25°C (77°F) Temp. Coefficient -5mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 2.25V ~ 2.3V at 25°C (77°F) Temp. Coefficient -3mV/°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>	10 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**

**T11 Terminal**



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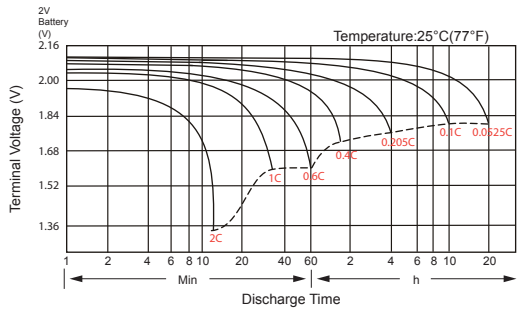
### Constant Current Discharge (Amperes) at 25°C (77°F)

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	466.7	441.2	361.4	320.0	267.4	217.2	177.3	118.8	90.8	73.2	62.7	55.1	44.7	38.2	20.3
1.80V/cell	568.0	481.2	411.9	358.6	293.8	233.6	188.8	125.0	98.4	75.7	65.2	57.5	46.9	40.0	21.0
1.75V/cell	663.9	551.4	466.0	397.4	319.6	252.8	203.2	132.6	100.0	79.9	68.4	60.2	48.1	40.8	21.3
1.70V/cell	759.7	623.3	515.0	437.0	347.3	270.1	215.1	140.0	104.4	83.2	71.2	62.3	49.6	41.8	21.7
1.65V/cell	815.6	666.4	548.0	462.0	363.9	280.7	223.5	144.6	107.7	85.7	73.1	63.5	50.5	42.5	22.1
1.60V/cell	946.0	754.7	615.9	515.0	398.0	303.6	240.0	151.8	112.3	89.3	76.5	66.3	52.4	43.8	22.8

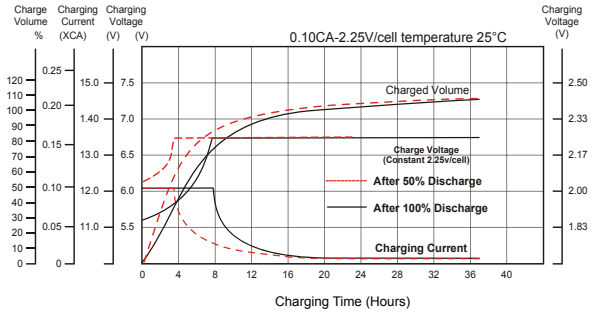
### Constant Power Discharge (Watts) at 25°C (77°F)

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	858.0	763.7	678.1	606.3	512.3	419.6	343.7	231.9	177.9	143.9	123.5	108.9	88.7	76.0	40.3
1.80V/cell	1033.2	883.2	762.4	669.7	554.4	447.8	364.2	242.4	191.7	148.0	127.9	113.1	92.7	79.4	41.7
1.75V/cell	1182.0	995.9	852.0	735.0	598.1	480.1	390.1	256.2	194.1	155.6	133.7	118.1	94.8	80.9	42.2
1.70V/cell	1315.3	1100.4	928.6	802.3	646.3	511.0	411.7	269.9	202.2	161.8	138.9	122.1	97.8	82.9	43.1
1.65V/cell	1392.2	1165.8	980.4	841.7	671.7	526.3	424.7	277.1	207.8	166.0	142.2	124.0	99.3	84.1	43.8
1.60V/cell	1577.6	1290.4	1083.9	928.2	729.6	566.3	453.6	289.5	215.6	172.4	148.3	129.0	102.9	86.6	45.0

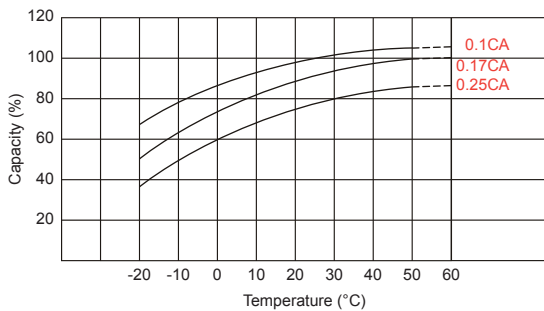
### Discharge Characteristics



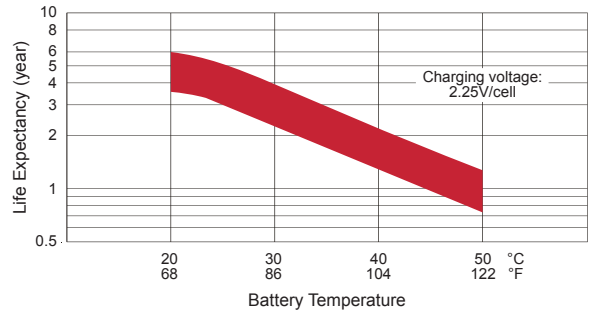
### Float Charging Characteristics



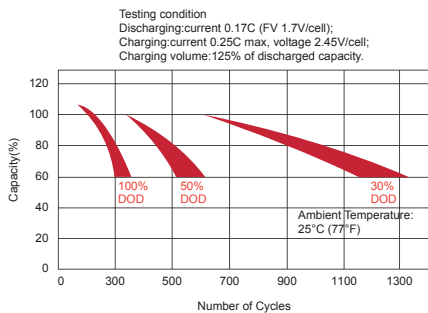
### Temperature Effects in Relation to Battery Capacity



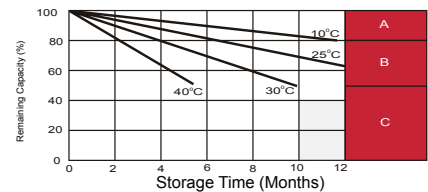
### Effect of Temperature on Long Term Float Life



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

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