

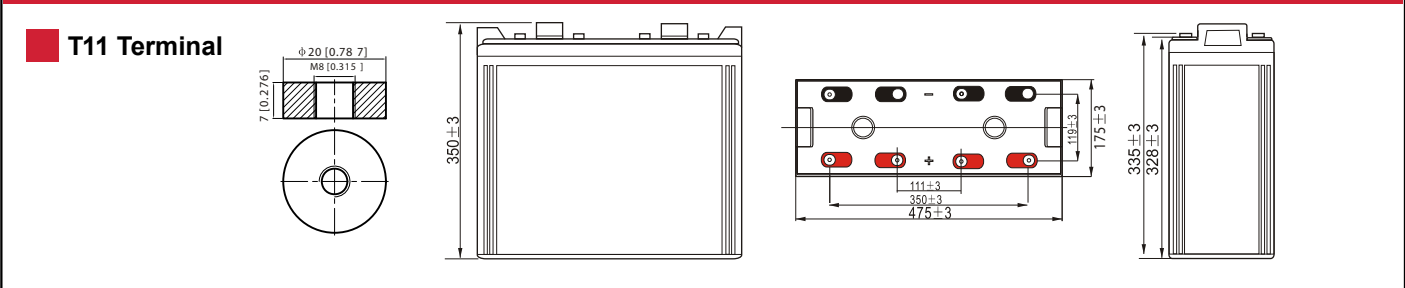


Physical Specification	
Part Number:	<b>CXL1000-2</b>
Length:	<b>475 ± 2 mm (18.70 inches)</b>
Width:	<b>175 ± 2 mm (6.89 inches)</b>
Container Height:	<b>328 ± 2 mm (12.91 inches)</b>
Total Height (with terminal):	<b>350 ± 2 mm (13.78 inches)</b>
Approx Weight:	<b>Approx 60 Kg</b>

**Specifications**

	Nominal Voltage	2V	
	Nominal Capacity (10HR)	1000AH	
<b>Terminal Type</b>	Standard Terminal	T11	
	Optional Terminal	-	
<b>Container Material</b>	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
<b>Rated Capacity</b>	1070.0 AH/53.5A	(20hr, 1.80V/cell, 25°C / 77°F)	
	1000.0 AH/100.0A	(10hr, 1.80V/cell, 25°C / 77°F)	
	870.0 AH/174.0A	(5hr, 1.75V/cell, 25°C / 77°F)	
	780.0 AH/260.0A	(3hr, 1.75V/cell, 25°C / 77°F)	
	620.0 AH/620.0A	(1hr, 1.60V/cell, 25°C / 77°F)	
<b>Max Discharge Current</b>	8000A (5s)		
<b>Internal Resistance</b>	Approx 0.45mΩ		
<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 300.0A. 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>	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**



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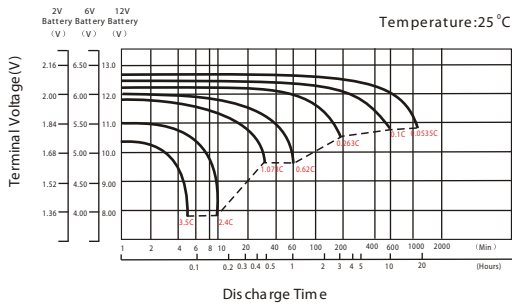
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1170.0	984.0	873.0	724.0	558.7	478.0	309.5	232.7	190.6	160.4	140.5	112.7	96.9	51.7
1.80V/cell	1338.8	1105.0	965.2	786.4	602.7	504.6	332.7	250.0	202.6	170.0	148.9	118.6	100.0	53.5
1.75V/cell	1520.5	1245.4	1066.7	854.5	657.3	550.0	346.0	260.0	209.6	174.0	153.5	122.6	102.7	54.9
1.70V/cell	1717.3	1381.7	1177.4	932.9	708.0	582.0	364.5	273.7	219.0	184.0	160.9	127.8	106.6	56.3
1.65V/cell	1844.2	1479.3	1252.6	984.5	749.3	602.0	377.9	284.7	227.7	189.8	166.5	132.1	109.6	58.0
1.60V/cell	\	1620.3	1360.7	1050.5	778.7	620.0	387.5	292.0	232.7	194.4	170.0	134.4	111.9	58.9

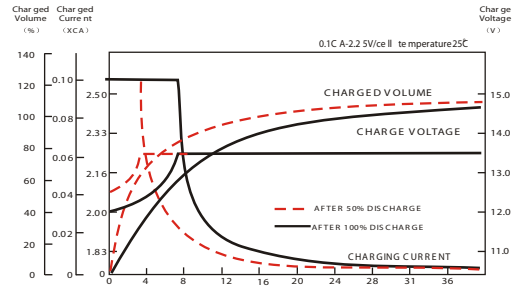
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2184.6	1855.8	1663.1	1394.4	1085.0	931.6	607.2	458.3	376.5	317.6	279.0	224.8	193.7	103.5
1.80V/cell	2470.7	2056.2	1812.0	1491.6	1161.5	978.1	648.4	489.6	398.1	335.1	294.5	235.9	199.6	106.9
1.75V/cell	2761.6	2289.4	1983.5	1607.6	1254.8	1061.4	671.9	507.2	410.4	341.8	302.8	243.2	204.7	109.5
1.70V/cell	3049.0	2505.0	2173.1	1745.5	1346.6	1119.6	706.3	532.8	428.0	360.9	316.8	253.2	212.4	112.2
1.65V/cell	3244.7	2661.6	2294.7	1827.1	1412.5	1149.8	728.1	551.9	443.2	371.0	326.8	261.1	218.0	115.5
1.60V/cell	\	2867.5	2466.0	1936.1	1460.0	1178.0	743.0	563.6	451.7	378.8	332.7	265.1	222.2	117.2

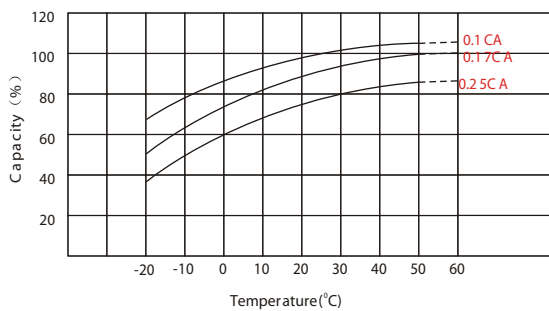
### Discharge Characteristics



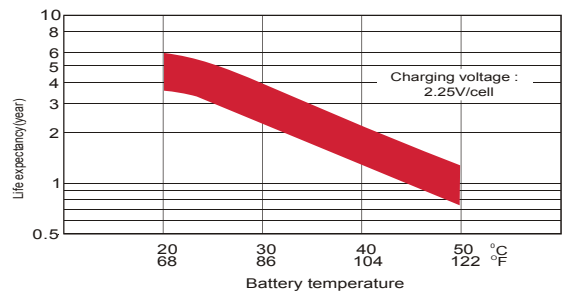
### Float Charging Characteristics



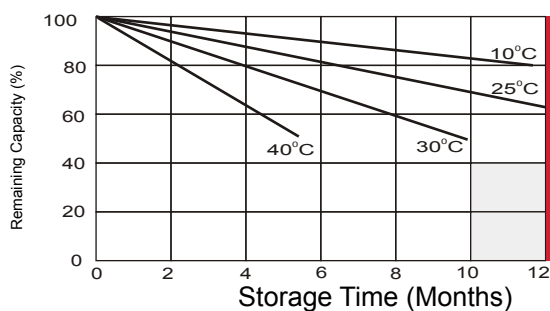
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Self Discharge Characteristics



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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