



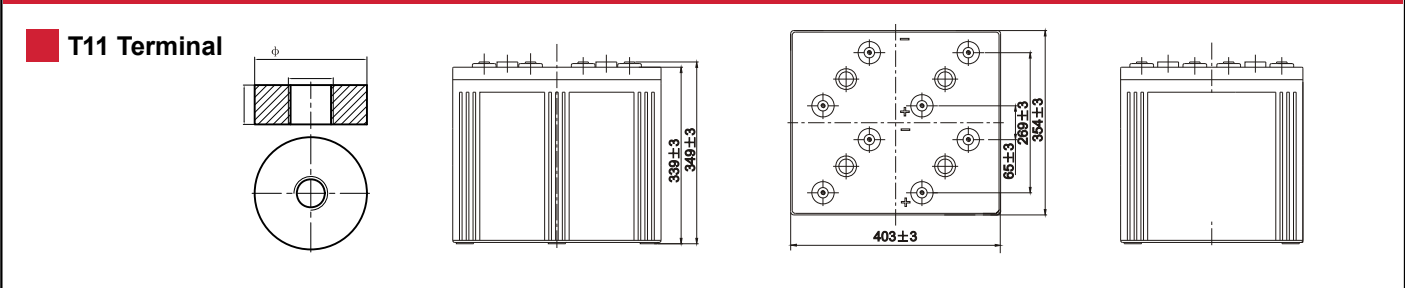
**Physical Specification**

Part Number:	<b>CXL2500-2</b>
Length:	<b>490 ± 3 mm (19.29 inches)</b>
Width:	<b>350 ± 3 mm (13.78 inches)</b>
Container Height:	<b>339 ± 3 mm (13.35 inches)</b>
Total Height (with terminal):	<b>349 ± 3 mm (13.74 inches)</b>
Approx Weight:	<b>Approx 138 Kg</b>

**Specifications**

	Nominal Voltage	2V	
	Nominal Capacity (10HR)	2500AH	
<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>	2675.0 AH/133.8A	(20hr, 1.80V/cell, 25°C / 77°F)	
	2500.0 AH/250.0A	(10hr, 1.80V/cell, 25°C / 77°F)	
	2175.0 AH/435.0A	(5hr, 1.75V/cell, 25°C / 77°F)	
	1950.0 AH/650.0A	(3hr, 1.75V/cell, 25°C / 77°F)	
	1550.0 AH/1550.0A	(1hr, 1.60V/cell, 25°C / 77°F)	
<b>Max Discharge Current</b>	20000A (5s)		
<b>Internal Resistance</b>	Approx 0.25mΩ		
<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 750.0A. 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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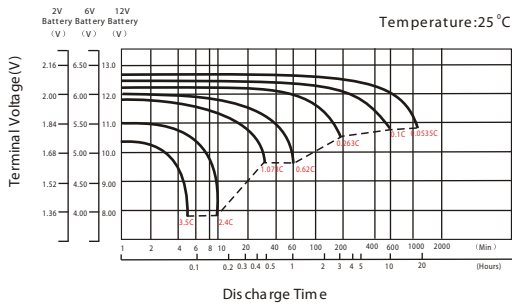
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2925.0	2460.0	2182.5	1810.0	1396.7	1195.0	773.8	581.8	476.6	401.0	351.3	281.8	242.3	129.3
1.80V/cell	3346.9	2762.4	2413.0	1965.9	1506.7	1261.4	831.8	625.0	506.6	425.0	372.2	296.6	250.0	133.8
1.75V/cell	3801.4	3113.4	2666.7	2136.3	1643.3	1375.0	865.0	650.0	524.1	435.0	383.8	306.5	256.7	137.1
1.70V/cell	\	3454.2	2943.5	2332.3	1770.0	1455.0	911.3	684.2	547.5	460.0	402.3	319.4	266.6	140.6
1.65V/cell	\	3698.4	3131.4	2461.3	1873.3	1505.0	944.8	711.7	569.1	474.5	416.3	330.2	274.1	145.0
1.60V/cell	\	\	3401.8	2626.4	1946.7	1550.0	968.8	730.0	581.8	486.1	425.0	335.9	279.8	147.4

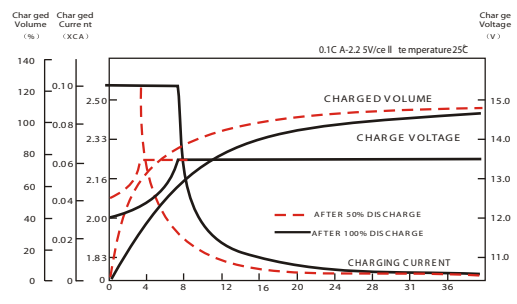
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	5461.6	4639.6	4157.7	3486.1	2712.6	2328.9	1518.1	1145.6	941.4	794.1	697.6	562.1	484.3	258.6
1.80V/cell	6176.7	5140.6	4529.9	3728.9	2903.6	2445.3	1621.1	1223.9	995.3	837.8	736.2	589.7	499.0	267.2
1.75V/cell	6904.0	5723.4	4958.7	4019.0	3137.1	2653.5	1679.7	1267.9	1026.1	854.6	756.9	608.1	511.8	273.7
1.70V/cell	\	6262.5	5432.8	4363.8	3366.5	2799.0	1765.8	1332.1	1070.0	902.3	792.0	633.1	531.1	280.5
1.65V/cell	\	6654.1	5736.8	4567.7	3531.2	2874.6	1820.2	1379.7	1108.1	927.6	817.1	652.8	545.1	288.8
1.60V/cell	\	\	6165.0	4840.4	3650.0	2945.0	1857.5	1408.9	1129.2	946.9	831.7	662.8	555.6	293.1

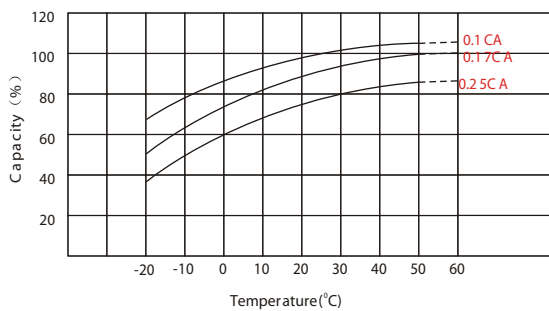
### Discharge Characteristics



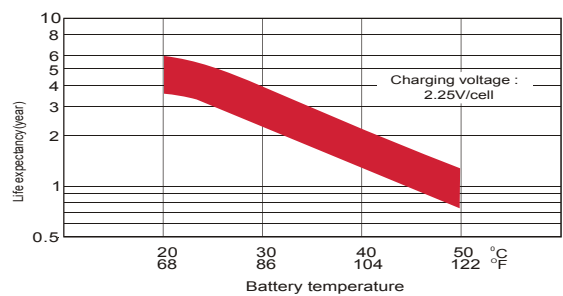
### Float Charging Characteristics



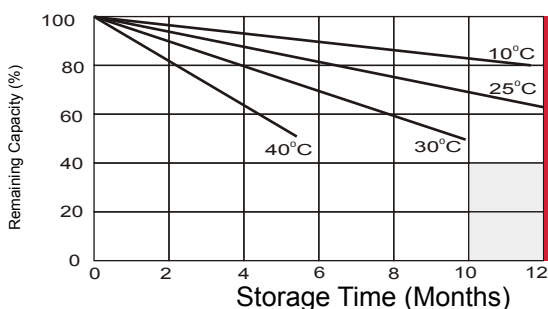
### Temperature Effects in Relation to Battery Capacity



### 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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