



**CXL1200-2**



**Physical Specification**

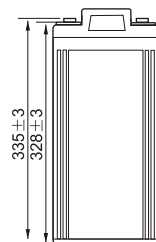
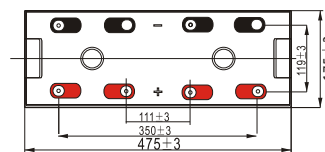
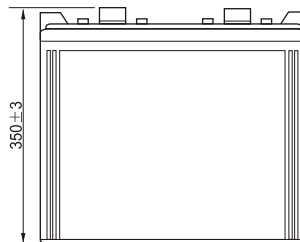
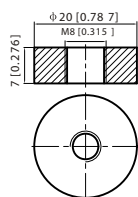
Part Number:	<b>CXL1200-2</b>
Length:	<b>475 ± 2 mm (18.70 inches)</b>
Width:	<b>175 ± 2 mm (6.89 inches)</b>
Container Height:	<b>328 ± 2 mm (12.91 inches)</b>
Total Height (with terminal):	<b>350 ± 2 mm (13.78 inches)</b>
Approx Weight:	<b>Approx 65.8 Kg</b>

**Specifications**

	Nominal Voltage	2V	
	Nominal Capacity (10HR)	1200AH	
<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>	1284.0 AH/64.2A	(20hr, 1.80V/cell, 25°C / 77°F)	
	1200.0 AH/120.0A	(10hr, 1.80V/cell, 25°C / 77°F)	
	1044.0 AH/208.8A	(5hr, 1.75V/cell, 25°C / 77°F)	
	936.0 AH/312.0A	(3hr, 1.75V/cell, 25°C / 77°F)	
	744.0 AH/744.0A	(1hr, 1.60V/cell, 25°C / 77°F)	
<b>Max Discharge Current</b>	9600A (5s)		
<b>Internal Resistance</b>	Approx 0.4mΩ		
<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 360.0A. 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**

**T11 Terminal**



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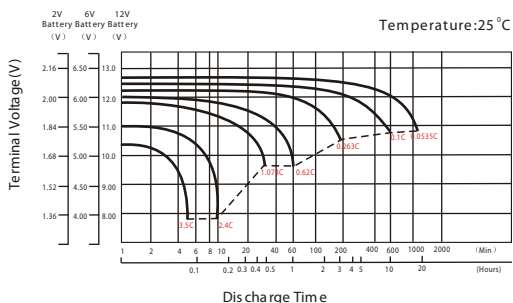
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1404.0	1180.8	1047.6	868.8	670.4	573.6	371.4	279.2	228.8	192.5	168.6	135.3	116.3	62.0
1.80V/cell	1606.5	1326.0	1158.2	943.6	723.2	605.5	399.2	300.0	243.2	204.0	178.7	142.4	120.0	64.2
1.75V/cell	1824.6	1494.4	1280.0	1025.4	788.8	660.0	415.2	312.0	251.6	208.8	184.2	147.1	123.2	65.8
1.70V/cell	\	1658.0	1412.9	1119.5	849.6	698.4	437.4	328.4	262.8	220.8	193.1	153.3	128.0	67.5
1.65V/cell	\	1775.2	1503.1	1181.4	899.2	722.4	453.5	341.6	273.2	227.8	199.8	158.5	131.5	69.6
1.60V/cell	\	\	1632.9	1260.6	934.4	744.0	465.0	350.4	279.2	233.3	204.0	161.3	134.3	70.7

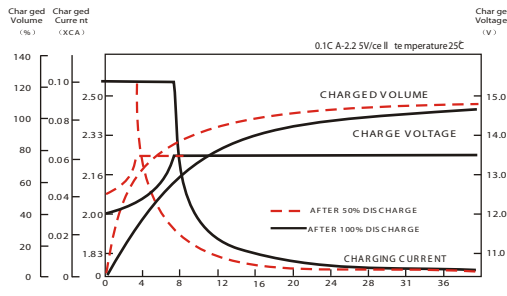
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2621.5	2227.0	1995.7	1673.3	1302.1	1117.9	728.7	549.9	451.8	381.2	334.8	269.8	232.4	124.1
1.80V/cell	2964.8	2467.5	2174.3	1789.9	1393.8	1173.8	778.1	587.5	477.7	402.1	353.4	283.1	239.5	128.3
1.75V/cell	3313.9	2747.2	2380.2	1929.1	1505.8	1273.7	806.2	608.6	492.5	410.2	363.3	291.9	245.7	131.4
1.70V/cell	\	3006.0	2607.7	2094.6	1615.9	1343.5	847.6	639.4	513.6	433.1	380.2	303.9	254.9	134.6
1.65V/cell	\	3194.0	2753.7	2192.5	1695.0	1379.8	873.7	662.3	531.9	445.2	392.2	313.4	261.6	138.6
1.60V/cell	\	\	2959.2	2323.4	1752.0	1413.6	891.6	676.3	542.0	454.5	399.2	318.1	266.7	140.7

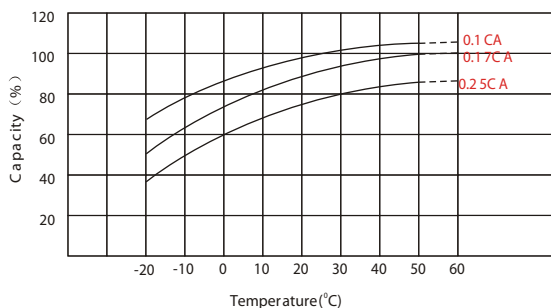
### Discharge Characteristics



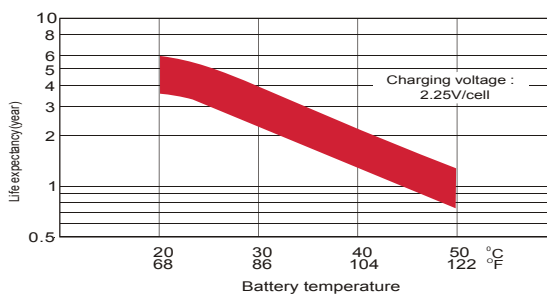
### Float Charging Characteristics



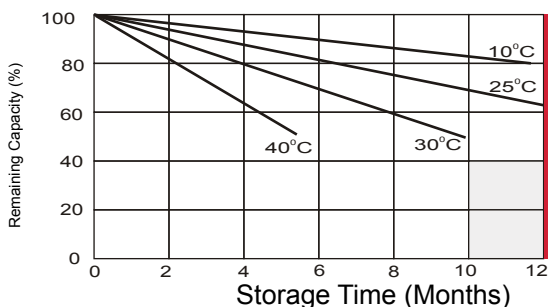
### Temperature Effects in Relation to Battery Capacity



### 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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