CXL 300-2
2V 300AH
Extended Life

CXL300-2

Awaiting Image

Physical Specification

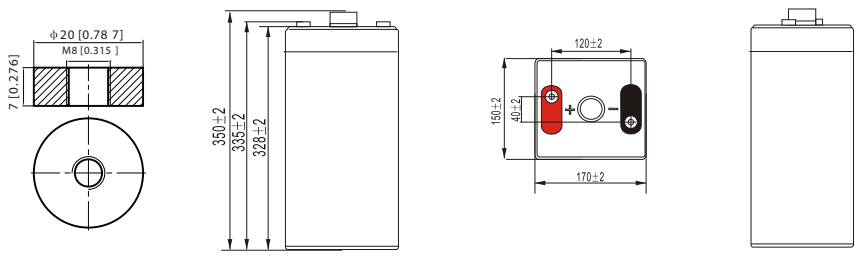
Part Number:	**CXL300-2**
Length:	**170 ± 2 mm (6.69 inches)**
Width:	**150 ± 2 mm (5.91 inches)**
Container Height:	**328 ± 2 mm (12.91 inches)**
Total Height (with terminal):	**350 ± 2 mm (13.78 inches)**
Approx Weight:	**Approx 18.7 Kg**

Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	300AH
Terminal Type	Standard Terminal	T11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	321.0AH/16.1A	(20hr,1.80V/cell, 25°C / 77°F)
	300.0 AH/30.0A	(10hr,1.80V/cell, 25°C / 77°F)
	261.0 AH/52.2A	(5hr,1.75V/cell, 25°C / 77°F)
	234.0 AH/78.0A	(3hr,1.75V/cell, 25°C / 77°F)
	186.0 AH/186.0A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	2400A (5s)	
Internal Resistance	Approx 0.9mΩ	
Discharge Characteristics	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	Inital Charging Current less than 150.0A.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%
Design Floating Life at 20°C	15 Years	
Self Discharge	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

T11 Terminal



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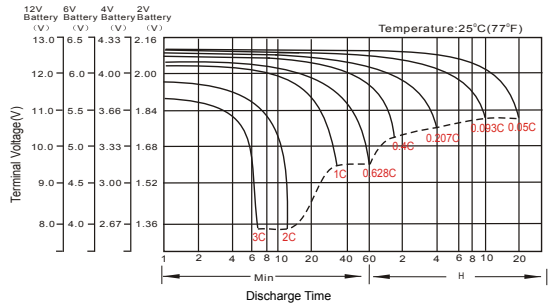
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	351.0	295.2	261.9	217.2	167.6	143.4	92.9	69.8	57.2	48.1	42.2	33.8	29.1	15.5
1.80V/cell	401.6	331.5	289.6	235.9	180.8	151.4	99.8	75.0	60.8	51.0	44.7	35.6	30.0	16.1
1.75V/cell	456.2	373.6	320.0	256.4	197.2	165.0	103.8	78.0	62.9	52.2	46.1	36.8	30.8	16.5
1.70V/cell	\	414.5	353.2	279.9	212.4	174.6	109.4	82.1	65.7	55.2	48.3	38.3	32.0	16.9
1.65V/cell	\	443.8	375.8	295.4	224.8	180.6	113.4	85.4	68.3	56.9	50.0	39.6	32.9	17.4
1.60V/cell	\	486.1	408.2	315.2	233.6	186.0	116.3	87.6	69.8	58.3	51.0	40.3	33.6	17.7

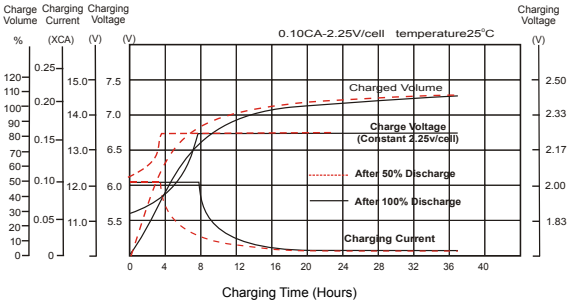
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	655.4	556.7	498.9	418.3	325.5	279.5	182.2	137.5	113.0	95.3	83.7	67.5	58.1	31.0
1.80V/cell	741.2	616.9	543.6	447.5	348.4	293.4	194.5	146.9	119.4	100.5	88.3	70.8	59.9	32.1
1.75V/cell	828.5	686.8	595.0	482.3	376.5	318.4	201.6	152.1	123.1	102.6	90.8	73.0	61.4	32.8
1.70V/cell	\	751.5	651.9	523.7	404.0	335.9	211.9	159.8	128.4	108.3	95.0	76.0	63.7	33.7
1.65V/cell	\	798.5	688.4	548.1	423.7	344.9	218.4	165.6	133.0	111.3	98.1	78.3	65.4	34.7
1.60V/cell	\	860.3	739.8	580.8	438.0	353.4	222.9	169.1	135.5	113.6	99.8	79.5	66.7	35.2

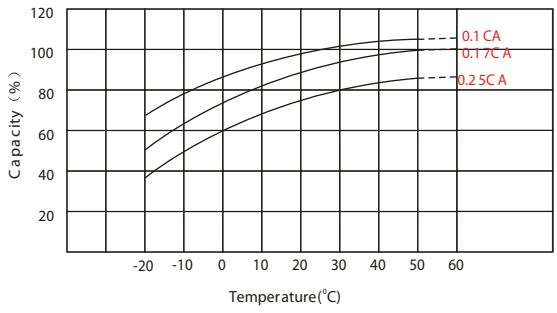
Discharge Characteristics



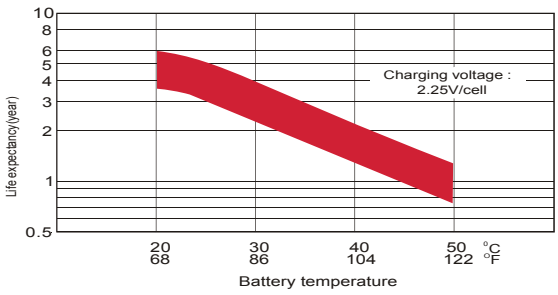
Float Charging Characteristics



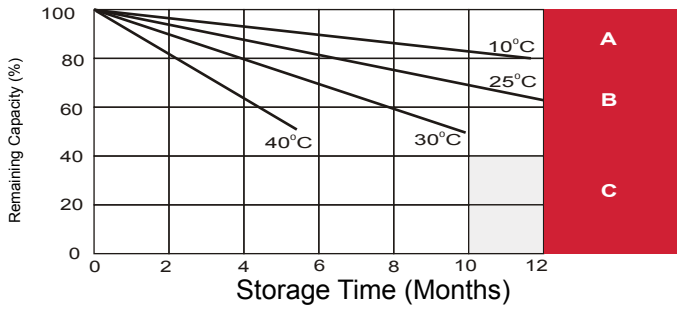
Temperature Effects in Relation to Battery Capacity



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 2.25Vcell.
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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