

# CBL300-2

2V 300AH

General Purpose Sealed Lead Acid Battery



## CBL300-2



## Physical Specification

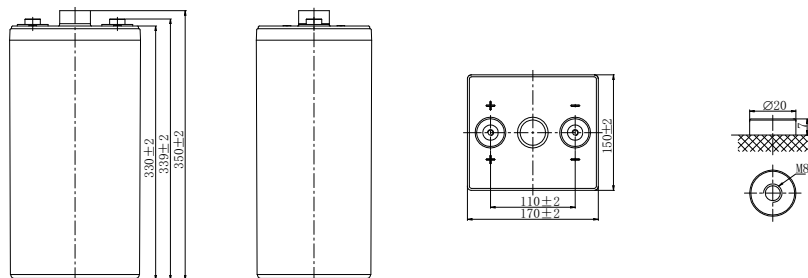
Part Number:	<b>CBL300-2</b>
Length:	<b>170 ± 2 mm ( 6.69 inches)</b>
Width:	<b>150 ± 2 mm ( 5.91 inches)</b>
Container Height:	<b>330 ± 2 mm (12.99 inches)</b>
Total Height (with terminal):	<b>350 ± 2 mm (13.78 inches)</b>
Approx Weight:	<b>17.7 Kg (39.0 lbs)</b>

## Specifications

	Nominal Voltage	2V	
	(C10 ,1.75V/cell)	300AH	
<b>Terminal Option</b>	M8		
<b>Container Material</b>	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
<b>Rated Capacity</b>	(20hr,16.1A,1.80V/cell)	322.0 Ah	
	(10hr,30.0A,1.80V/cell)	300.0 Ah	
	(5hr,53.0A,1.75V/cell)	265.0 Ah	
	(3hr,78.8A,1.75V/cell)	236.4 Ah	
	(1hr,190.6A,1.60V/cell)	190.6 Ah	
<b>Max Discharge Current (5s)</b>	2400A		
<b>Internal Resistance</b>	Approx. 0.78mΩ		
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -15°C~50°C (5°F~122°F)	
		Charge: 0°C~40°C (32°F~104°F)	
		Storage: -15°C~40°C (5°F~104°F)	
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
	Cycle Use	Initial Charging Current less than 90.0A. Voltage 2.40V~2.50V at 25°C (77°F) Temp. Coefficient -5mV/°C	
	Self Discharge	Initial Charging Current less than 90.0A. Voltage 2.25V~2.30V 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>	20+ Years		
<b>Self Discharge</b>	Canbat Lead Acid AGM 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. Self-discharge is less than 2%		

## Dimensions

### M8 Terminal



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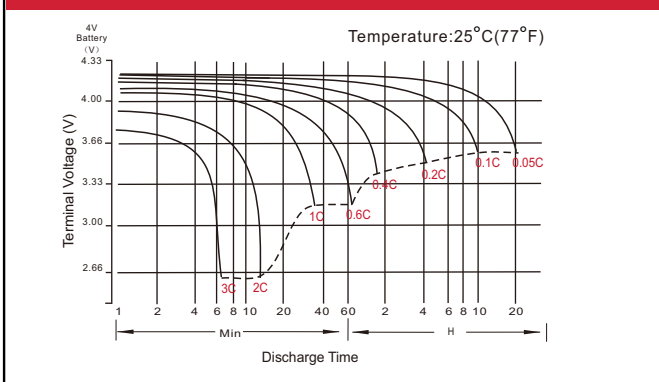
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	300.5	261.9	216.3	169.3	149.7	115.1	93.2	70.9	57.0	48.1	41.8	34.0	28.4	15.2
1.80V/cell	349.5	301.7	244.5	189.3	165.7	125.9	101.4	76.7	61.5	51.8	44.8	36.4	30.0	16.1
1.75V/cell	369.7	316.6	255.6	197.0	171.8	130.1	104.5	78.8	63.0	53.0	45.8	37.0	30.8	16.3
1.70V/cell	390.7	333.2	272.9	204.5	178.1	134.5	107.9	81.1	64.6	54.2	46.7	37.7	31.3	16.5
1.67V/cell	403.1	342.6	291.8	209.1	181.8	137.0	109.7	82.3	65.5	54.9	47.3	38.1	31.5	16.6
1.60V/cell	432.0	364.8	295.1	219.9	190.6	143.1	114.2	85.3	67.7	56.6	48.6	39.0	32.2	16.9

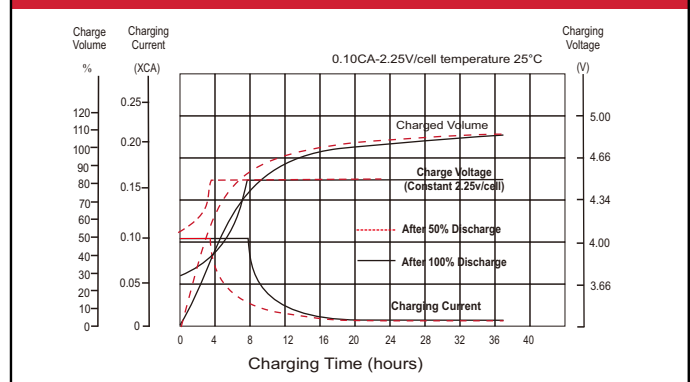
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	577.4	504.5	418.1	328.3	290.9	224.4	182.2	139.0	112.1	94.8	82.4	67.1	56.2	30.3
1.80V/cell	664.4	575.8	468.7	364.4	319.8	244.1	197.2	149.8	120.4	101.8	88.1	71.7	59.9	31.9
1.75V/cell	695.6	598.3	485.7	376.3	329.3	250.8	202.2	153.2	123.0	103.7	89.7	72.9	60.7	32.3
1.70V/cell	726.9	623.3	513.9	387.5	339.0	257.7	207.5	156.9	125.6	105.8	91.4	74.0	61.6	32.7
1.67V/cell	744.8	636.9	544.2	394.3	344.5	261.3	210.3	158.8	127.0	106.9	92.4	74.7	62.0	32.9
1.60V/cell	784.3	667.6	545.7	410.2	357.8	270.8	217.4	163.7	130.6	109.7	94.6	76.2	63.2	33.4

### Discharge Characteristics



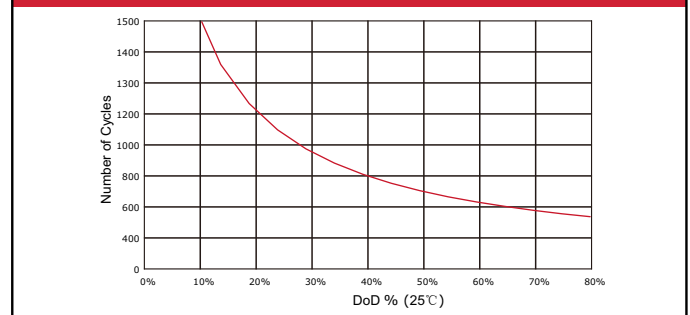
### Float Charging Characteristics



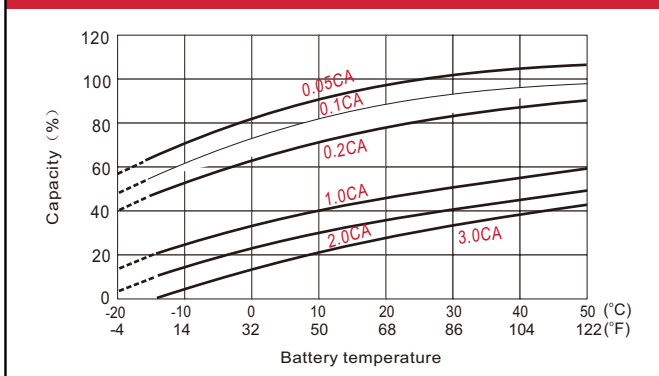
### Valve-Regulated Sealed Lead Acid Batteries

Sealed lead acid batteries are engineered to provide reliable power in a compact design. They are spill-proof and require zero maintenance, as adding water is never necessary. The acid in the battery is suspended in a glass mat separator, which makes the cells leak-proof during normal battery operation. Our batteries are proudly designed in Canada with quality and performance in mind, offering one of the highest cycle life among other sealed lead acid battery brands. Canbat AGM batteries are manufactured with pure lead to ensure a low self-discharge rate of less than 2%, meaning stored batteries are only required a recharge once every six months. The series also features an outer container made from ABS material.

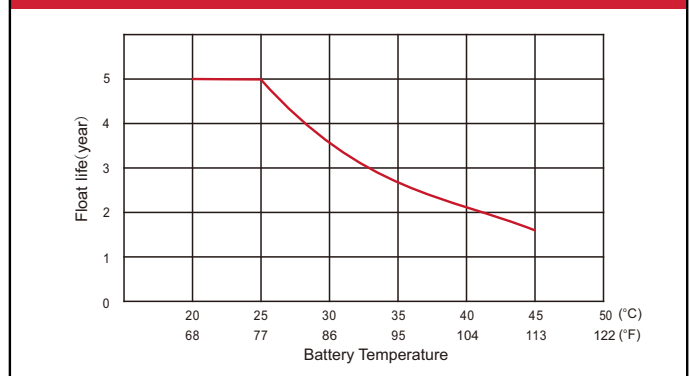
### Cycle Life Relation o Depth of Discharge



### Temperature Effects in Relation to Battery Capacity



### Float Service Life



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