

CBL800-2

2V 800AH

General Purpose Sealed Lead Acid Battery



CBL800-2



Physical Specification

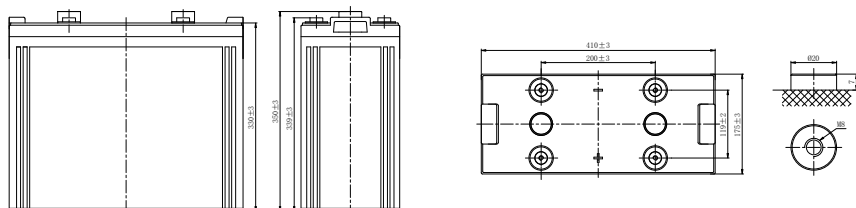
Part Number:	CBL800-2
Length:	410 ± 2 mm (16.14 inches)
Width:	175 ± 2 mm (6.89 inches)
Container Height:	330 ± 2 mm (12.99 inches)
Total Height (with terminal):	350 ± 2 mm (13.78 inches)
Approx Weight:	50.4 Kg (111.1 lbs)

Specifications

	Nominal Voltage	2V	
	(C10 ,1.75V/cell)	800AH	
Terminal Option	M8		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr,42.4A,1.80V/cell)	848.0 Ah	
	(10hr,80.0A,1.80V/cell)	800.0 Ah	
	(5hr,140.0A,1.75V/cell)	700.0 Ah	
	(3hr,208.0A,1.75V/cell)	624.0 Ah	
	(1hr,503.4A,1.60V/cell)	503.4Ah	
Max Discharge Current (5s)	6400A		
Internal Resistance	Approx. 0.4mΩ		
Discharge Characteristics	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 240.0A. Voltage 2.40V~2.50V at 25°C (77°F) Temp. Coefficient -5mV/°C	
	Self Discharge	Initial Charging Current less than 240.0A. 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%	
Design Floating Life at 20°C	20+ Years		
Self Discharge	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



To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website www.canbat.com. Canbat Technologies Inc. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E

CBL800-2

2V 800AH

General Purpose Sealed Lead Acid Battery



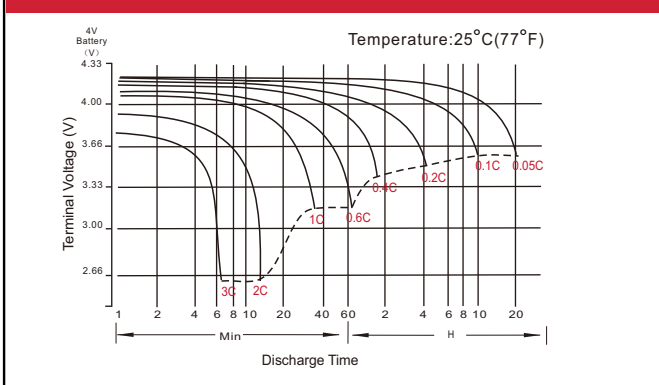
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	571.1	451.5	395.2	303.8	246.1	187.2	150.6	127.1	110.3	89.7	75.0	40.2
1.80V/cell	645.7	504.9	437.4	332.4	267.8	202.6	162.3	136.9	118.3	96.0	80.0	42.4
1.75V/cell	674.8	525.4	453.5	343.6	276.0	208.0	166.4	140.0	120.8	97.7	81.2	42.9
1.70V/cell	720.6	545.4	470.2	355.2	284.8	214.1	170.6	143.2	123.4	99.5	82.5	43.5
1.67V/cell	770.4	557.6	480.0	361.6	289.6	217.3	173.0	145.0	124.9	100.5	83.2	43.8
1.60V/cell	779.2	586.4	503.4	377.8	301.6	225.3	178.7	149.4	128.4	102.9	85.0	44.6

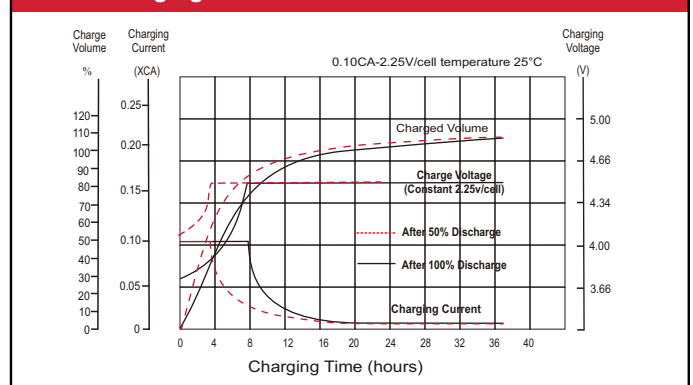
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1103.8	875.5	768.2	592.4	481.0	367.1	296.0	250.2	217.5	177.2	148.4	79.9
1.80V/cell	1237.4	971.8	844.4	644.5	520.7	395.6	317.9	268.7	232.7	189.3	158.1	84.2
1.75V/cell	1282.4	1003.5	869.4	662.1	533.7	404.4	324.6	273.9	236.9	192.4	160.3	85.2
1.70V/cell	1356.9	1033.4	895.1	680.4	547.9	414.3	331.6	279.3	241.4	195.4	162.5	86.2
1.67V/cell	1436.7	1051.4	909.5	690.0	555.1	419.4	335.4	282.2	243.9	197.1	163.8	86.8
1.60V/cell	1440.7	1094.0	944.7	714.9	574.0	432.3	344.8	289.6	249.7	201.2	166.8	88.3

Discharge Characteristics



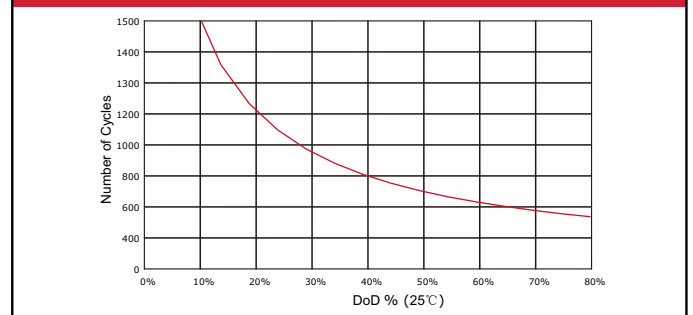
Float Charging Characteristics



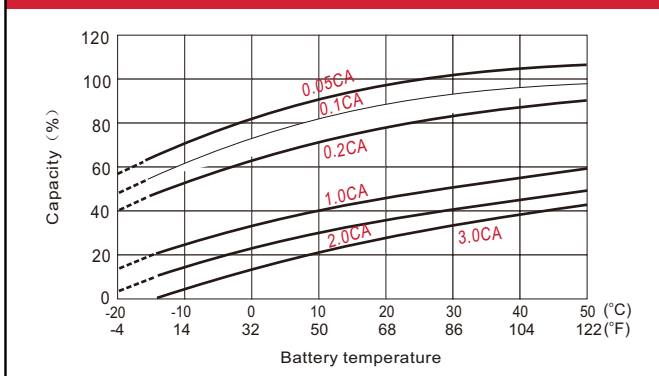
Valve-Regulated Sealed Lead Acid Batteries

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.

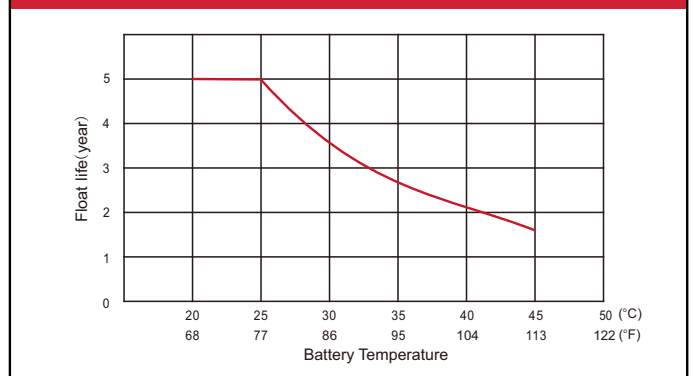
Cycle Life Relation o Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Float Service Life



To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website www.canbat.com. Canbat Technologies Inc. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E