

CBG1000-2

2V 1000AH

Deep Cycle Gel Battery



CBG1000-2



Physical Specification

Part Number:	CBG1000-2
Length:	475 ± 2 mm (18.70 inches)
Width: Container	175 ± 2 mm (6.89 inches)
Height:	328 ± 2 mm (12.91 inches)
Total Height (with terminal):	338 ± 2 mm (13.31 inches)
Approx Weight:	65.7kg (144.8lbs)

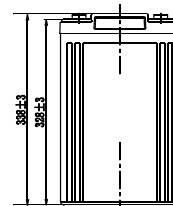
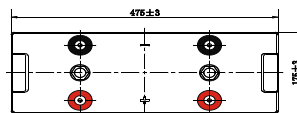
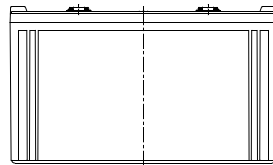
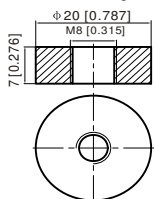
Specifications

	Nominal Voltage	2V
	(C10,1.80V/cell)	1000AH
Terminal Option	T11	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr,53.335A, 1.80V/cell)	1066.7 Ah
	(10hr,100.0A,1.75V/cell)	1000.0 Ah
	(5hr,172.0A,1.75V/cell)	860.0 Ah
	(3hr,249.3A,1.75V/cell)	747.9 Ah
	(1hr,586.7A,1.67V/cell)	586.7 Ah
Max Discharge Current (5s)	7000A	
Internal Resistance	Approx. 0.54mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20°C~55°C (-4°F~131°F)
		Charge: 0°C~40°C (32°F~104°F)
		Storage: -20°C~50°C (5°F~122°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 250.0A. 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)
25°C (77°F)		100%
0°C (32°F)		86%
Design Floating Life at 20°C	20 Years	
Self Discharge	Canbat Deep Cycle Gel batteries may be stored for up to 9 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

T11 Terminal

Unit: mm [inches]



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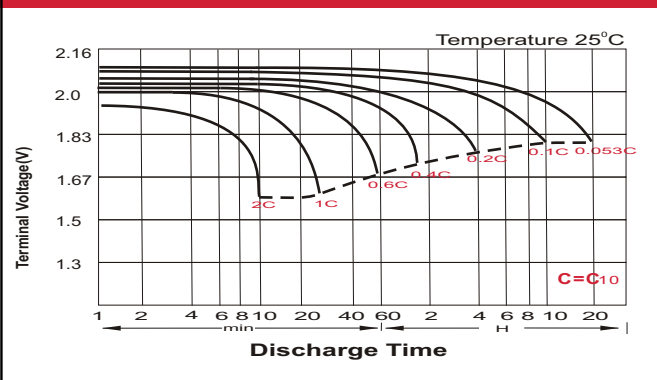
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	684.0	521.3	453.0	289.0	220.3	182.5	157.6	136.0	120.4	108.6	99.2	93.9	51.20
1.80V/cell	764.0	576.0	500.0	313.0	236.0	193.5	165.6	142.8	126.0	113.9	104.4	98.1	53.34
1.75V/cell	840.0	621.3	534.0	331.5	249.3	202.8	172.0	147.8	130.6	117.5	107.6	100.0	54.40
1.70V/cell	900.0	660.0	566.0	351.5	259.7	209.3	177.2	153.0	134.9	121.0	110.3	102.4	55.15
1.67V/cell	936.0	684.0	586.7	360.5	268.0	214.5	181.0	155.5	136.9	122.8	111.9	103.6	55.65
1.60V/cell	\	734.7	623.0	375.0	278.7	222.5	186.6	159.3	139.7	125.0	114.2	105.6	56.45

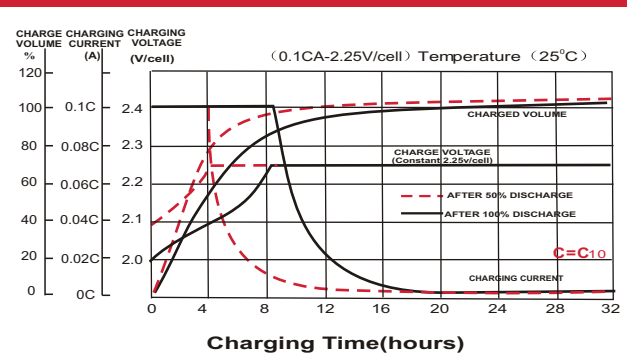
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1307.8	1003.0	875.2	560.4	428.3	356.2	308.7	267.4	237.4	214.5	196.2	185.8	101.4
1.80V/cell	1447.0	1097.9	961.0	603.8	457.1	376.2	323.3	279.8	247.5	224.2	206.0	193.7	105.5
1.75V/cell	1573.3	1173.7	1021.0	637.8	482.0	392.9	334.2	288.6	255.8	230.9	211.9	197.3	107.5
1.70V/cell	1674.0	1242.1	1078.2	673.1	500.4	404.5	343.6	298.2	263.8	237.4	217.1	201.8	108.9
1.67V/cell	1717.6	1275.7	1108.9	686.8	514.3	413.3	349.7	302.1	266.9	240.2	219.6	203.9	109.7
1.60V/cell	\	1362.8	1171.2	711.0	532.3	427.4	359.4	308.6	271.7	244.1	223.9	207.5	111.2

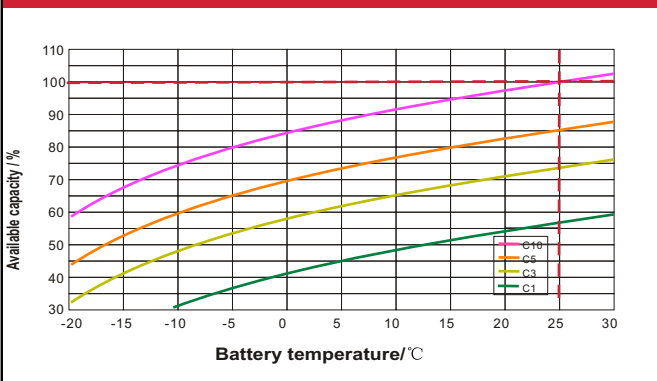
Discharge Characteristics



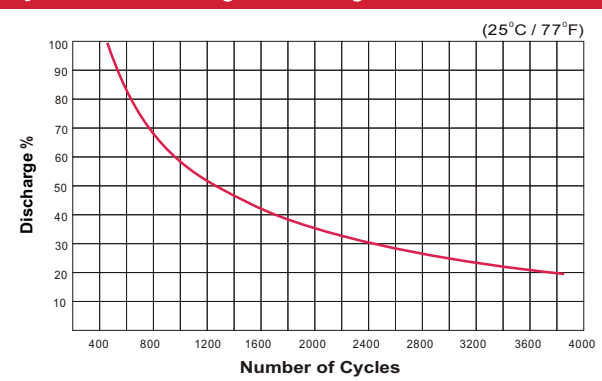
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Cycle Life / Discharge Percentage



Deep Cycle Gel Battery Features

- Ability to deeply discharge
- Maintenance-free
- Spill-free / Spill-proof
- Oxygen recombination technology
- Low self-discharge rate
- Excellent cycle life
- High power and volume ratio
- Unrivalled energy density
- Valve regulated
- Extremely safe operations
- VRLA Gel technology
- High reliability
- Rechargeable lead acid batteries
- Optimum quality
- Developed in Canada

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