

CBG800-2

2V 800AH

Deep Cycle Gel Battery



CBG800-2



Physical Specification

Part Number:	CBG800-2
Length:	410 ± 2 mm (16.14 inches)
Width: Container	175 ± 2 mm (6.89 inches)
Height:	330 ± 2 mm (12.99 inches)
Total Height (with terminal):	340 ± 2 mm (13.39 inches)
Approx Weight:	50.6 kg (111.57lbs)

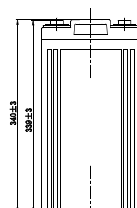
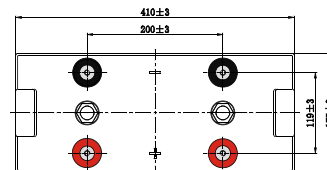
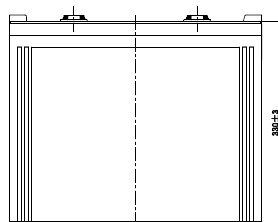
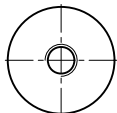
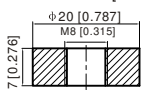
Specifications

	Nominal Voltage	2V	
	(C10, 1.80V/cell)	800AH	
Terminal Option	T11		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr, 72.7A, 1.80V/cell)	854.0 Ah	
	(10hr, 80.0A, 1.75V/cell)	800.0 Ah	
	(5hr, 137.6A, 1.75V/cell)	688.0 Ah	
	(3hr, 199.5A, 1.75V/cell)	598.5 Ah	
	(1hr, 469.3A, 1.67V/cell)	469.3 Ah	
Max Discharge Current (5s)	5600A		
Internal Resistance	Approx. 0.6mΩ		
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 200.0A. 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	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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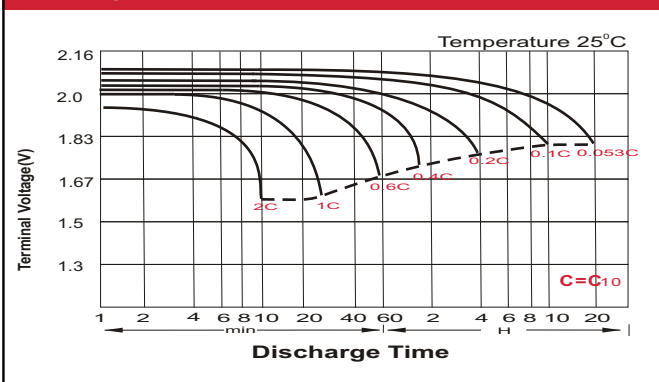
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	696.0	547.2	417.1	362.4	231.2	176.3	146.0	126.1	108.8	96.3	86.9	79.4	75.1	40.96
1.80V/cell	799.2	611.2	460.8	400.0	250.4	188.8	154.8	132.5	114.3	100.8	91.1	83.6	78.5	42.70
1.75V/cell	897.6	672.0	497.1	427.2	265.2	199.5	162.2	137.6	118.3	104.5	94.0	86.0	80.0	43.55
1.70V/cell	\	720.0	528.0	452.8	281.2	207.7	167.4	141.8	122.4	107.9	96.8	88.3	81.9	44.15
1.67V/cell	\	748.8	547.2	469.3	288.4	214.4	171.6	144.8	124.4	109.5	98.2	89.5	82.9	44.56
1.60V/cell	\	800.0	587.7	498.4	300.0	222.9	178.0	149.3	127.5	111.8	100.0	91.4	84.5	45.19

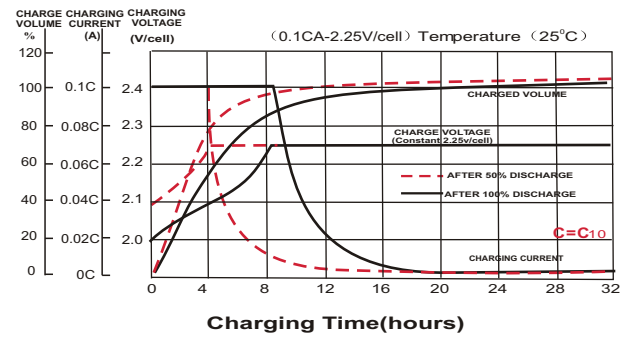
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1321.7	1046.2	802.4	700.2	448.3	342.7	285.0	247.0	213.9	189.9	171.6	156.9	148.7	81.1
1.80V/cell	1497.7	1157.6	878.3	768.8	483.0	365.7	300.9	258.6	223.8	198.0	179.4	164.8	155.0	84.4
1.75V/cell	1663.3	1258.7	939.0	816.8	510.2	385.6	314.3	267.4	230.9	204.6	184.7	169.5	157.8	86.0
1.70V/cell	\	1339.2	993.7	862.6	538.5	400.3	323.6	274.9	238.6	211.0	189.9	173.7	161.5	87.1
1.67V/cell	\	1374.0	1020.5	887.0	549.4	411.4	330.7	279.8	241.7	213.5	192.2	175.7	163.1	87.8
1.60V/cell	\	1458.4	1090.2	937.0	568.8	425.8	341.9	287.5	246.9	217.4	195.3	179.1	166.0	88.9

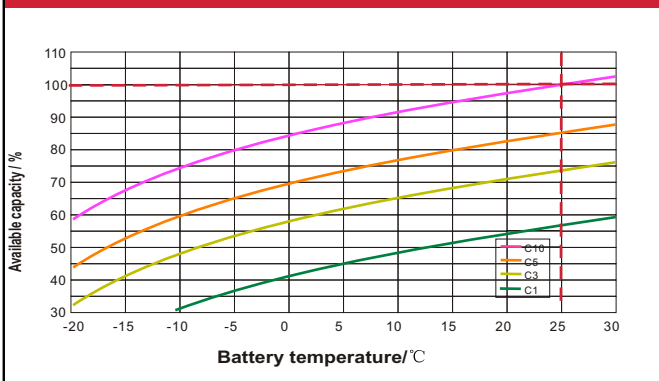
Discharge Characteristics



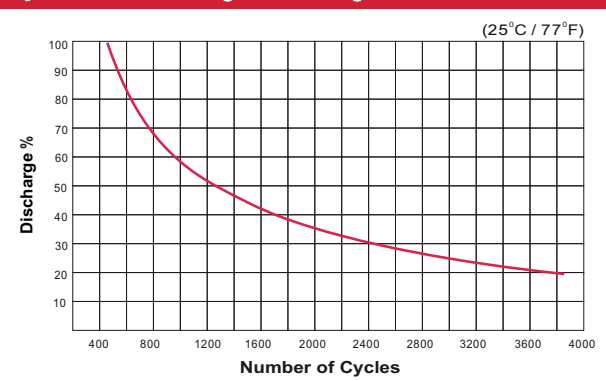
Float Charging Characteristics



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