

CBG96-2

2V 96AH

Deep Cycle Gel Battery



CBG96-2



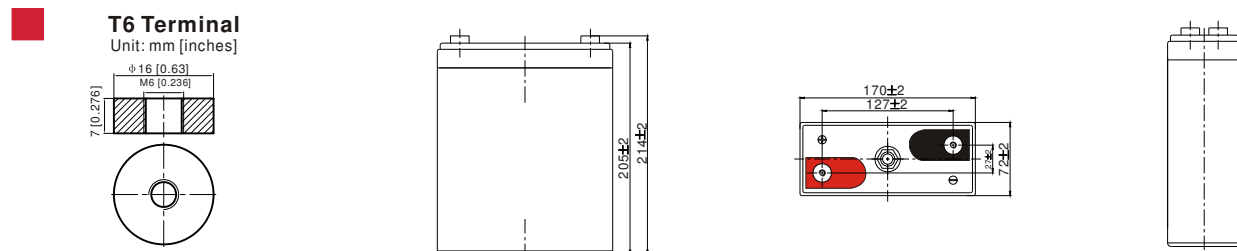
Physical Specification

Part Number:	CBG96-2
Length:	170 ± 2 mm (6.69 inches)
Width: Container	72 ± 2 mm (2.83 inches)
Height:	205 ± 2 mm (8.07 inches)
Total Height (with terminal):	214 ± 2 mm (8.35 inches)
Approx Weight:	6. kg (13.23lbs)

Specifications

	Nominal Voltage	2V
	(C10, 1.80V/cell)	96AH
Terminal Option	T6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr, 4.80A, 1.80V/cell)	96.0 Ah
	(10hr, 9.0A, 1.75V/cell)	90.0 Ah
	(5hr, 15.5A, 1.75V/cell)	77.5 Ah
	(3hr, 23.0A, 1.75V/cell)	69.0 Ah
	(1hr, 52.8A, 1.67V/cell)	52.8 Ah
Max Discharge Current (5s)	700A	
Internal Resistance	Approx. 1.68mΩ	
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 24.0A. 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



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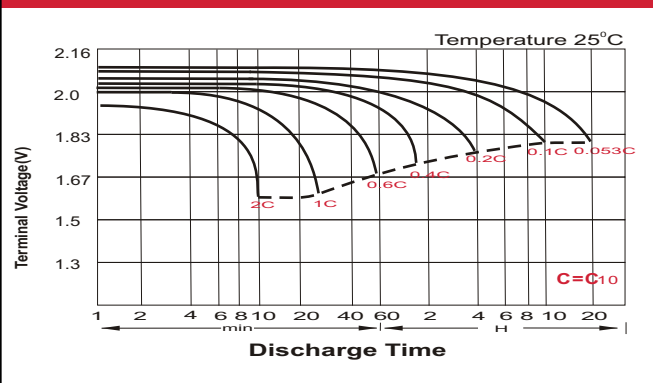
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	74.5	64.6	51.7	41.6	27.3	20.9	17.2	14.7	12.8	11.2	10.3	9.38	8.67	4.66
1.80V/cell	88.1	75.9	58.9	46.6	29.6	21.7	17.9	15.1	13.1	11.4	10.6	9.65	8.91	4.80
1.75V/cell	96.4	79.4	62.6	49.0	30.7	23.0	18.3	15.5	13.5	11.7	10.8	9.81	9.00	4.87
1.70V/cell	102.7	83.3	65.3	50.9	32.0	23.7	18.9	15.9	13.9	12.2	11.2	10.1	9.19	4.92
1.67V/cell	110.5	88.7	67.1	52.8	32.9	24.7	19.7	16.4	14.3	12.4	11.4	10.3	9.39	4.97
1.60V/cell	119.3	94.5	70.2	54.9	34.0	25.5	20.4	16.7	14.5	12.6	11.5	10.5	9.60	5.03

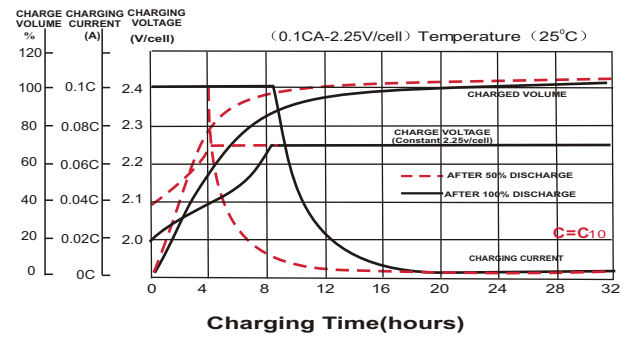
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	139.6	122.8	99.5	80.5	52.8	40.7	33.6	28.8	25.1	22.2	20.3	18.5	17.2	9.22
1.80V/cell	163.3	142.1	111.9	89.6	57.1	42.1	34.7	29.4	25.6	22.4	20.8	19.0	17.6	9.49
1.75V/cell	177.1	147.8	118.2	93.7	59.1	44.4	35.5	30.1	26.3	22.9	21.2	19.3	17.8	9.62
1.70V/cell	187.5	154.0	122.9	96.9	61.3	45.6	36.5	30.9	27.2	23.9	22.0	19.8	18.1	9.72
1.67V/cell	200.2	162.6	125.1	99.8	62.7	47.5	37.9	31.7	27.9	24.2	22.2	20.2	18.5	9.81
1.60V/cell	213.9	172.3	130.2	103.2	64.6	48.8	39.2	32.2	28.2	24.5	22.5	20.6	18.9	9.90

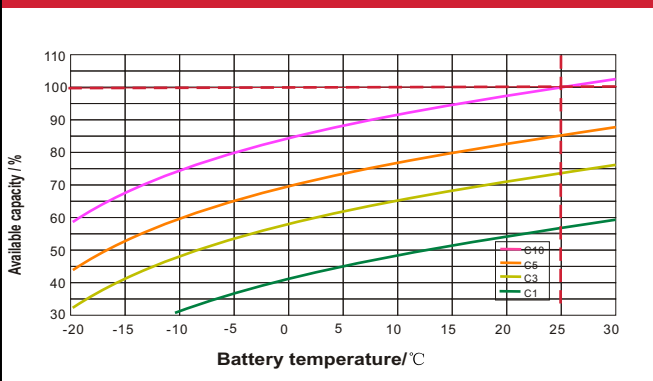
Discharge Characteristics



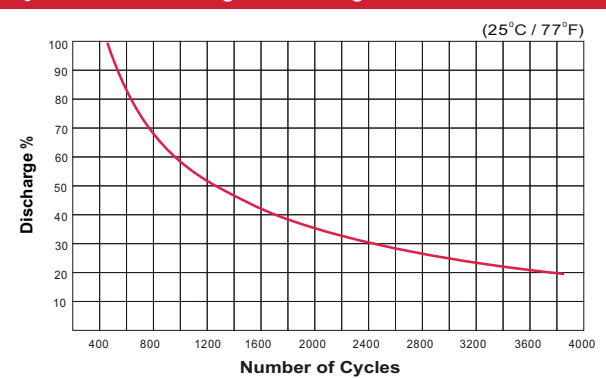
Float Charging Characteristics



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