

CBG 100-2

2V 100AH

Deep Cycle Gel



CBG100-2



Physical Specification

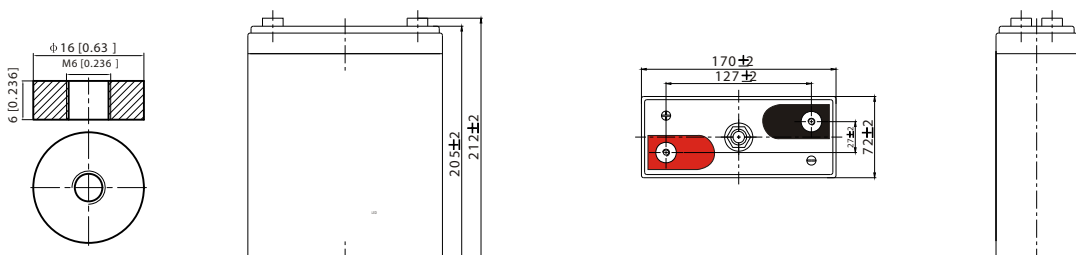
Part Number:	CBG100-2
Length:	170 ± 2 mm (6.69 inches)
Width:	72 ± 2 mm (2.83 inches)
Container Height:	205 ± 2 mm (8.07 inches)
Total Height (with terminal):	212 ± 2 mm (8.35 inches)
Approx Weight:	Approx 6.2 kg (13.67lbs)

Specifications

	Nominal Voltage	2V
	Nominal Capacity (20HR)	96AH
Terminal Type	Standard Terminal	T6
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	96.0 AH/4.80A	(20hr, 1.80V/cell, 25°C / 77°F)
	90.0 AH/9.00A	(10hr, 1.80V/cell, 25°C / 77°F)
	77.5 A H/15.5A	(5hr, 1.75V/cell, 25°C / 77°F)
	69.0 AH/23.0A	(3hr, 1.75V/cell, 25°C / 77°F)
	52.8 AH/52.8A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current	700A (5s)	
Internal Resistance	Approx 1.58mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C (-4 ~ 131°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
		Storage: -20 ~ 50°C (-4 ~ 122°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 25.0A. 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	15 Years	
Self Discharge	Canbat 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.	

Dimensions

T6 Terminal



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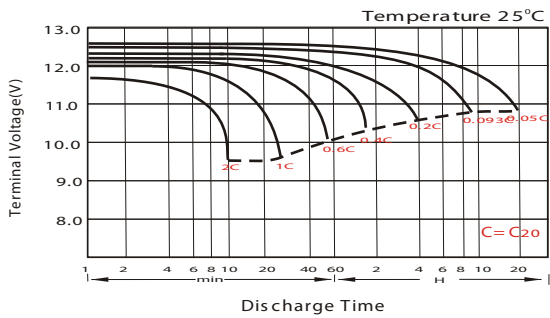
Constant Current Discharge (Amperes) at 25 °C (77°F)

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

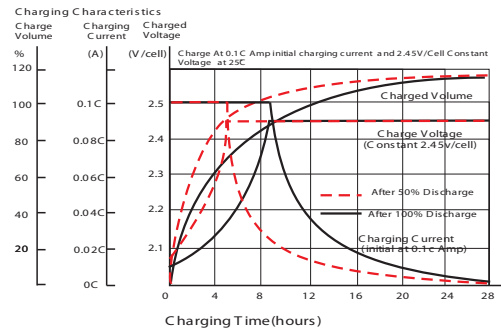
Constant Power Discharge (Watts) at 25 °C (77°F)

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

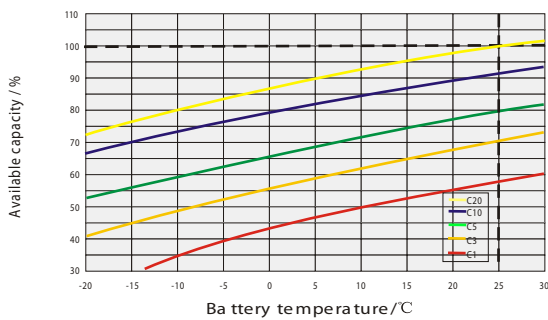
Discharge Characteristics



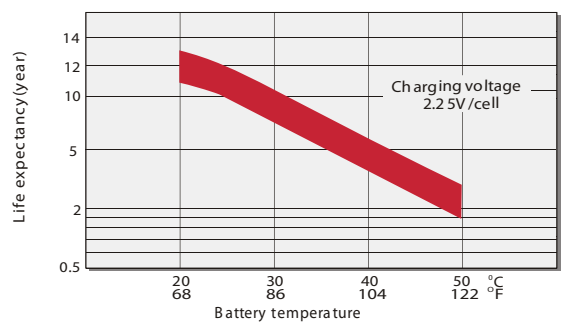
Float Charging Characteristics



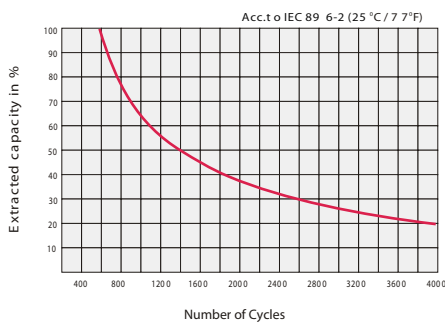
Temperature Effects in Relation to Battery Capacity



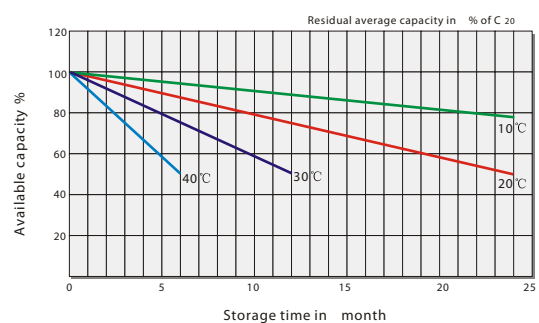
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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