

CBG 400-2

2V 400AH

Deep Cycle Gel



CBG400-2



Physical Specification

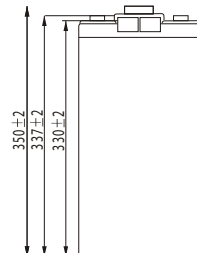
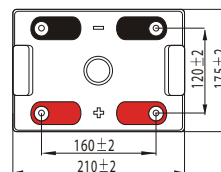
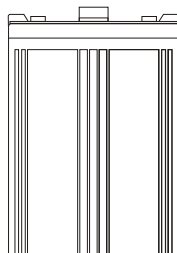
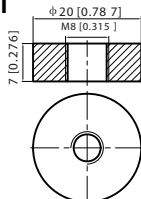
Part Number:	CBG400-2
Length:	210 ± 2 mm (8.27 inches)
Width:	175 ± 2 mm (6.89 inches)
Container Height:	330 ± 2 mm (12.99 inches)
Total Height (with terminal):	350 ± 2 mm (13.78 inches)
Approx Weight:	Approx 28.0 kg (61.74lbs)

Specifications

	Nominal Voltage	2V
	Nominal Capacity (20HR)	400AH
Terminal Type	Standard Terminal	T11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	426.7 AH/21.34A	(20hr, 1.80V/cell, 25°C / 77°F)
	400.0 AH/40.00A	(10hr, 1.80V/cell, 25°C / 77°F)
	344.0 A H/68.8A	(5hr, 1.75V/cell, 25°C / 77°F)
	299.1 AH/99.7A	(3hr, 1.75V/cell, 25°C / 77°F)
	234.7 AH/234.7A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current	2800A (5s)	
Internal Resistance	Approx 0.79mΩ	
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 100.0A. 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(°77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

T11 Terminal



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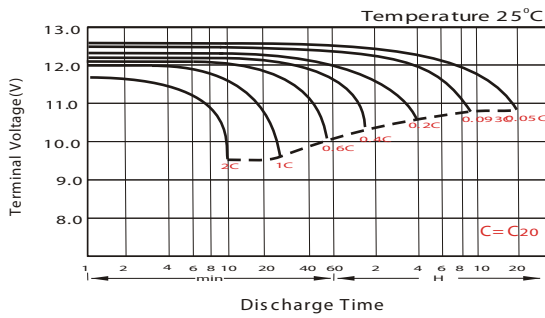
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	348.0	273.6	208.5	181.2	115.6	88.1	73.0	63.0	54.4	48.2	43.5	39.7	37.6	20.48
1.80V/cell	399.6	305.6	230.4	200.0	125.2	94.4	77.4	66.2	57.1	50.4	45.6	41.8	39.2	21.34
1.75V/cell	448.8	336.0	248.5	213.6	132.6	99.7	81.1	68.8	59.1	52.2	47.0	43.0	40.0	21.76
1.70V/cell	483.6	360.0	264.0	226.4	140.6	103.9	83.7	70.9	61.2	53.9	48.4	44.1	41.0	22.06
1.67V/cell	502.8	374.4	273.6	234.7	144.2	107.2	85.8	72.4	62.2	54.7	49.1	44.8	41.4	22.26
1.60V/cell	544.8	400.0	293.9	249.2	150.0	111.5	89.0	74.6	63.7	55.9	50.0	45.7	42.2	22.58

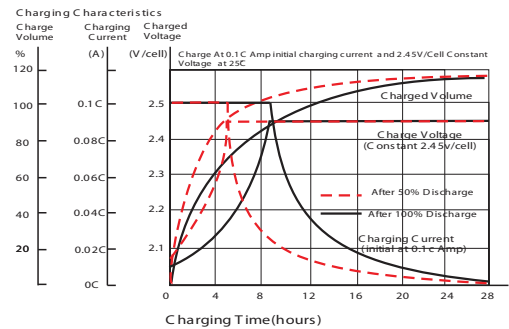
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	660.9	523.1	401.2	350.1	224.1	171.3	142.5	123.5	107.0	94.9	85.8	78.5	74.3	40.6
1.80V/cell	748.9	578.8	439.1	384.4	241.5	182.9	150.5	129.3	111.9	99.0	89.7	82.4	77.5	42.2
1.75V/cell	831.6	629.3	469.5	408.4	255.1	192.8	157.2	133.7	115.4	102.3	92.4	84.8	78.9	43.0
1.70V/cell	886.4	669.6	496.8	431.3	269.2	200.2	161.8	137.4	119.3	105.5	95.0	86.9	80.7	43.5
1.67V/cell	911.1	687.0	510.3	443.6	274.7	205.7	165.3	139.9	120.9	106.7	96.1	87.9	81.6	43.9
1.60V/cell	976.3	729.2	545.1	468.5	284.4	212.9	171.0	143.8	123.5	108.7	97.7	89.6	83.0	44.5

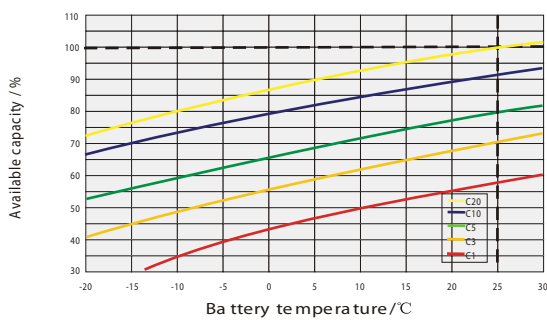
Discharge Characteristics



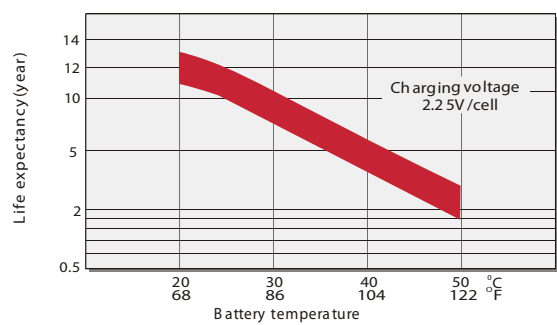
Float Charging Characteristics



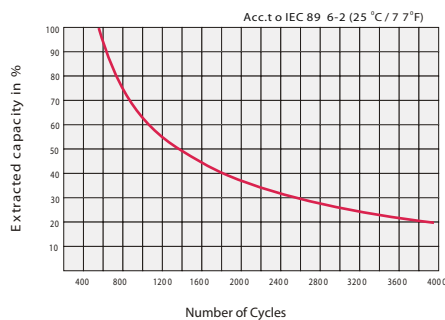
Temperature Effects in Relation to Battery Capacity



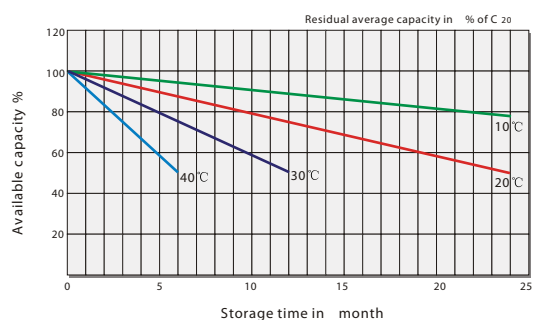
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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