

CBG300-2

2V 300AH

Deep Cycle Gel Battery



CBG300-2



Physical Specification

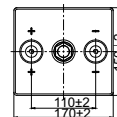
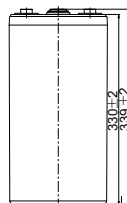
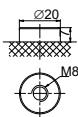
Part Number:	CBG300-2
Length:	170 ± 2 mm (6.69 inches)
Width: Container	150 ± 2 mm (5.90 inches)
Height:	330 ± 2 mm (12.99 inches)
Total Height (with terminal):	340 ± 2 mm (13.34 inches)
Approx Weight:	19.1 kg (42.1lbs)

Specifications

	Nominal Voltage	2V
	(C10, 1.80V/cell)	300AH
Terminal Option	T11	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr, 16.33A, 1.80V/cell)	326.6 Ah
	(10hr, 30.0A, 1.75V/cell)	300.0 Ah
	(5hr, 52.7A, 1.75V/cell)	263.5 Ah
	(3hr, 79.3A, 1.75V/cell)	237.9 Ah
	(1hr, 179.6A, 1.67V/cell)	179.6 Ah
Max Discharge Current (5s)	2100A	
Internal Resistance	Approx. 0.55mΩ	
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 75.0A. 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



To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website www.canbat.com. Canbat Technologies Inc. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.E

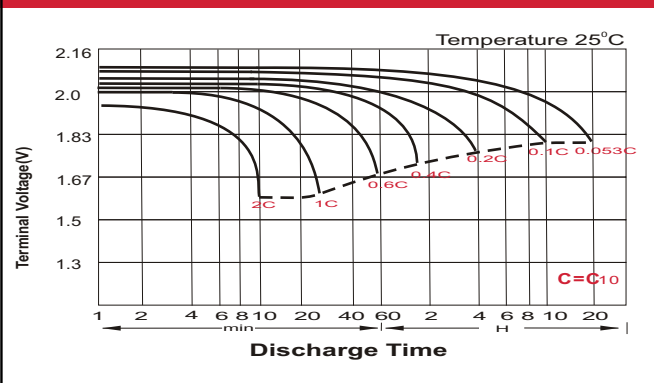
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	266.3	209.4	159.6	138.7	88.5	70.1	55.9	48.2	41.6	36.9	33.3	30.4	28.7	15.67
1.80V/cell	305.8	233.9	176.3	155.0	95.8	75.0	59.2	50.7	43.7	38.6	34.9	32.0	30.0	16.33
1.75V/cell	343.5	257.1	190.2	163.5	101.5	79.3	62.1	52.7	45.3	40.0	36.0	32.9	30.6	16.65
1.70V/cell	370.1	275.5	202.0	173.3	107.6	82.6	64.1	54.2	46.8	41.3	37.0	33.8	31.3	16.88
1.67V/cell	384.8	286.5	209.4	179.6	110.4	85.2	65.7	55.4	47.6	41.9	37.6	34.3	31.7	17.04
1.60V/cell	416.9	306.1	224.9	190.7	114.8	88.6	68.1	57.1	48.8	42.8	38.3	35.0	32.3	17.28

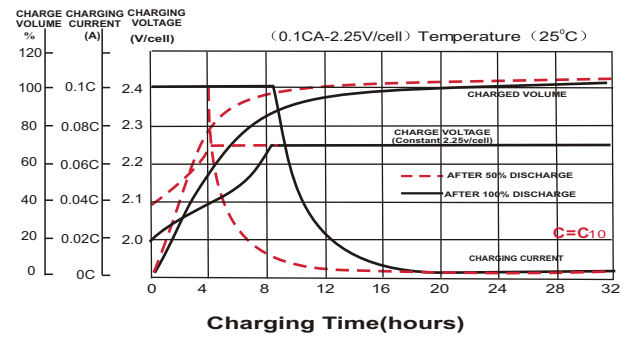
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	505.8	400.3	307.1	267.9	171.5	136.2	109.1	94.5	81.8	72.7	65.7	60.0	56.9	31.0
1.80V/cell	573.1	443.0	336.1	294.2	184.8	145.4	115.2	99.0	85.7	75.8	68.6	63.1	59.3	32.3
1.75V/cell	636.4	481.6	359.3	312.6	195.2	153.3	120.3	102.3	88.3	78.3	70.7	64.9	60.4	32.9
1.70V/cell	678.4	512.4	380.2	330.1	206.1	159.1	123.8	105.2	91.3	80.7	72.7	66.5	61.8	33.3
1.67V/cell	697.3	525.8	390.5	339.4	210.2	163.5	126.5	107.0	92.5	81.7	73.5	67.2	62.4	33.6
1.60V/cell	747.2	558.1	417.2	358.5	217.7	169.3	130.8	110.0	94.5	83.2	74.7	68.5	63.5	34.0

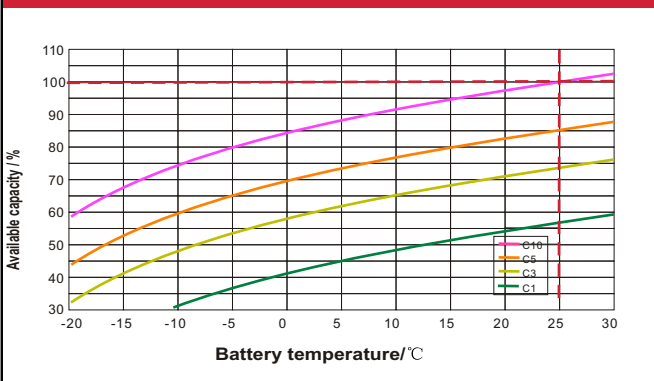
Discharge Characteristics



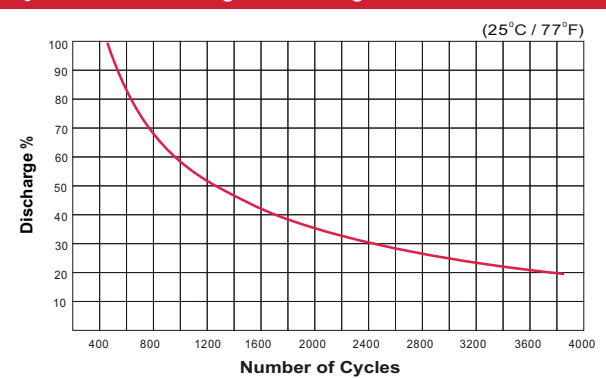
Float Charging Characteristics



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