

CBG600-2

2V 600AH

Deep Cycle Gel Battery

CANBAT

CBG600-2



Physical Specification

Part Number:	CBG600-2
Length:	300 ± 2 mm (11.81 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:	36.5 kg (80.5lbs)

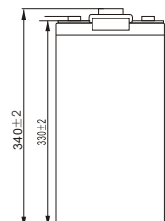
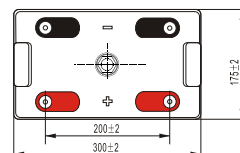
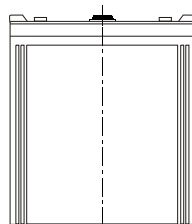
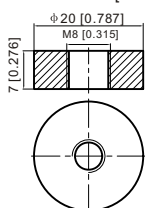
Specifications

	Nominal Voltage	2V	
	(C10, 1.80V/cell)	600AH	
Terminal Option	T11		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr, 32.0A, 1.80V/cell)	640.0 Ah	
	(10hr, 60.0A, 1.75V/cell)	600.0 Ah	
	(5hr, 103.2A, 1.75V/cell)	516.0 Ah	
	(3hr, 149.6A, 1.75V/cell)	448.8 Ah	
	(1hr, 352.0A, 1.67V/cell)	352.0 Ah	
Max Discharge Current (5s)	4200A		
Internal Resistance	Approx. 0.66mΩ		
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 150.0A. 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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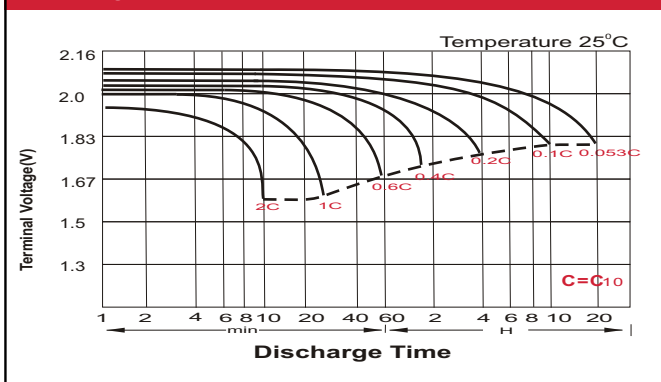
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	522.0	410.4	312.8	271.8	173.4	132.2	109.5	94.6	81.6	72.3	65.2	59.5	56.3	30.7
1.80V/cell	599.4	458.4	345.6	300.0	187.8	141.6	116.1	99.4	85.7	75.6	68.3	62.7	58.9	32.0
1.75V/cell	673.2	504.0	372.8	320.4	198.9	149.6	121.7	103.2	88.7	78.3	70.5	64.5	60.0	32.6
1.70V/cell	725.4	540.0	396.0	339.6	210.9	155.8	125.6	106.3	91.8	80.9	72.6	66.2	61.4	33.1
1.67V/cell	754.2	561.6	410.4	352.0	216.3	160.8	128.7	108.6	93.3	82.1	73.7	67.1	62.2	33.4
1.60V/cell	817.2	600.0	440.8	373.8	225.0	167.2	133.5	112.0	95.6	83.8	75.0	68.5	63.4	33.9

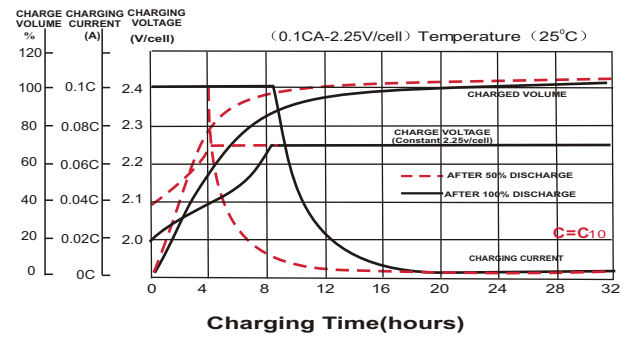
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	991.3	784.7	601.8	525.1	336.2	257.0	213.7	185.2	160.4	142.4	128.7	117.7	111.5	60.9
1.80V/cell	1123.3	868.2	658.7	576.6	362.3	274.3	225.7	194.0	167.9	148.5	134.5	123.6	116.2	63.3
1.75V/cell	1247.4	944.0	704.2	612.6	382.7	289.2	235.8	200.5	173.1	153.5	138.5	127.1	118.4	64.5
1.70V/cell	1329.7	1004.4	745.3	646.9	403.9	300.2	242.7	206.2	178.9	158.3	142.4	130.3	121.1	65.3
1.67V/cell	1366.6	1030.5	765.4	665.3	412.1	308.6	248.0	209.8	181.3	160.1	144.1	131.8	122.3	65.8
1.60V/cell	1464.4	1093.8	817.7	702.7	426.6	319.4	256.5	215.6	185.2	163.0	146.5	134.3	124.5	66.7

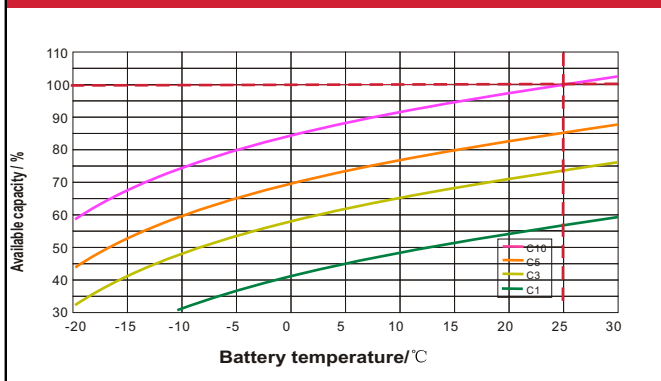
Discharge Characteristics



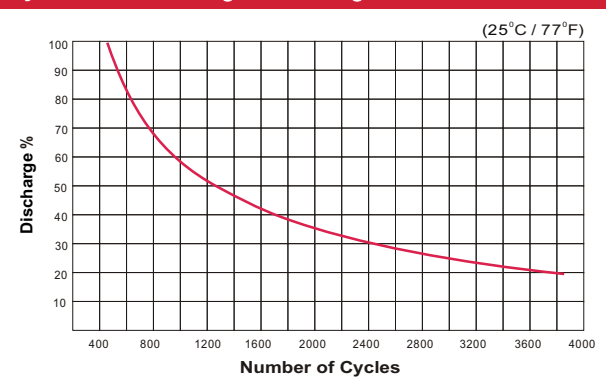
Float Charging Characteristics



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

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