

# CBG110-12

12V 110AH

Deep Cycle Gel Battery



## CBG110-12



## Physical Specification

Part Number:	<b>CBG110-12</b>
Length:	<b>410 ± 2 mm ( 16.97 inches)</b>
Width: Container	<b>177 ± 2 mm ( 6.87 inches)</b>
Height:	<b>225 ± 2 mm ( 8.86 inches)</b>
Total Height (with terminal):	<b>225 ± 2 mm ( 8.86 inches)</b>
Approx Weight:	<b>36.0 kg (79.37 lbs)</b>

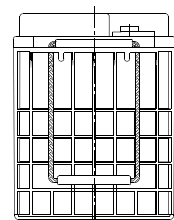
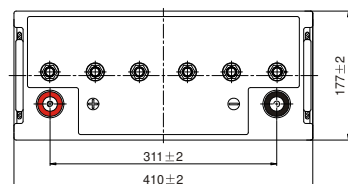
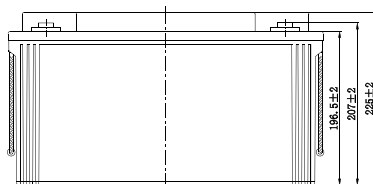
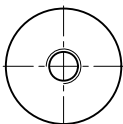
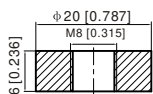
## Specifications

	Nominal Voltage	12V
	(C10, 1.80V/cell)	110AH
<b>Terminal Option</b>	T11	
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
<b>Rated Capacity</b>	(20hr, 5.50A, 1.80V/cell)	110.0 Ah
	(10hr, 10.5A, 1.75V/cell)	105.0 Ah
	(5hr, 17.6A, 1.75V/cell)	88.0 Ah
	(3hr, 25.5A, 1.75V/cell)	76.5 Ah
	(1hr, 55.0A, 1.67V/cell)	55.0 Ah
<b>Max Discharge Current (5s)</b>	990 A	
<b>Internal Resistance</b>	Approx. 4.8mΩ	
<b>Discharge Characteristics</b>	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 27.5A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV°C
	Capacity affected by Temperature	40°C (104°F)      103%
		25°C (77°F)      100%
		0°C (32°F)      86%
<b>Design Floating Life at 20°C</b>	20 Years	
<b>Self Discharge</b>	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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# CBG110-12

12V 110AH

Deep Cycle Gel Battery



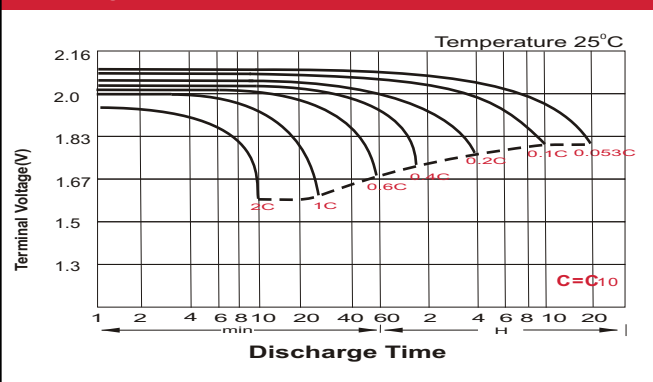
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	93.1	73.0	55.7	46.6	29.6	22.6	18.7	16.1	13.9	12.3	11.1	10.2	9.60	5.28
1.80V/cell	106.6	81.6	61.5	51.5	32.0	24.2	19.8	16.9	14.6	12.9	11.6	10.7	10.0	5.50
1.75V/cell	119.8	89.8	66.4	55.1	33.9	25.5	20.7	17.6	15.1	13.4	12.0	11.0	10.5	5.61
1.70V/cell	129.0	96.1	70.5	58.3	36.0	26.6	21.4	18.2	15.7	13.8	12.4	11.3	10.7	5.68
1.67V/cell	134.3	99.9	73.0	60.5	36.9	27.4	21.9	18.5	15.9	14.0	12.6	11.4	10.9	5.74
1.60V/cell	145.5	106.9	78.5	64.2	38.4	28.5	22.8	19.1	16.3	14.3	12.8	11.7	11.1	5.82

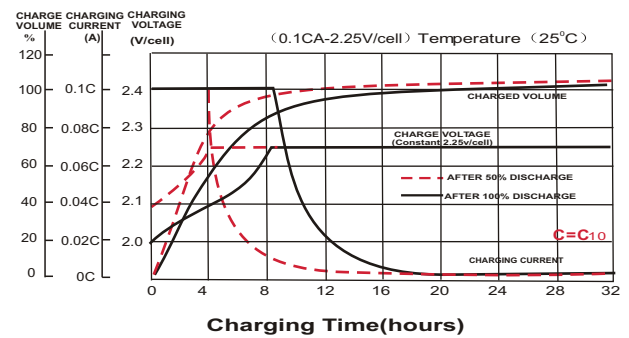
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	178.1	140.7	108.1	90.8	57.8	44.2	36.7	31.8	27.6	24.5	22.1	20.2	19.1	10.5
1.80V/cell	201.3	155.8	118.3	99.7	62.3	47.2	38.8	33.3	28.8	25.5	23.1	21.2	20.0	11.0
1.75V/cell	223.8	169.8	127.0	106.2	65.8	49.7	40.5	34.5	29.8	26.4	23.8	21.8	20.3	11.2
1.70V/cell	238.4	180.3	133.8	111.7	69.4	51.6	41.7	35.5	30.7	27.2	24.5	22.4	20.8	11.3
1.67V/cell	245.4	185.3	137.6	115.3	70.9	53.0	42.6	36.1	31.2	27.5	24.8	22.6	21.0	11.4
1.60V/cell	263.0	196.5	146.7	121.7	73.4	54.9	44.1	37.1	31.8	28.0	25.2	23.1	21.4	11.5

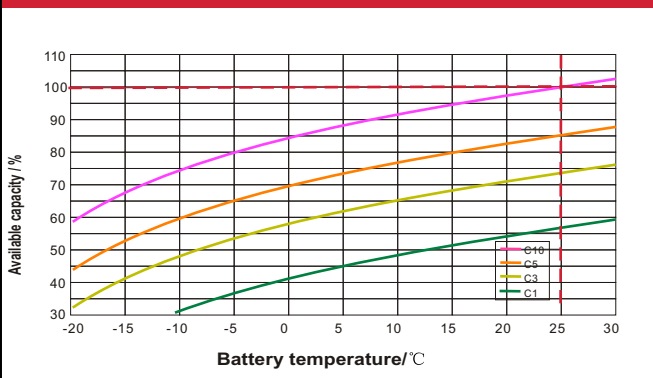
### Discharge Characteristics



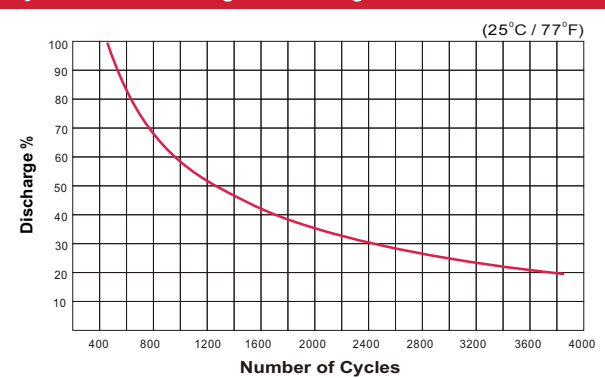
### Float Charging Characteristics



### 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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