

CBG45-12

12V 45AH

Deep Cycle Gel Battery



CBG45-12



Physical Specification

Part Number:	CBG45-12
Length:	257 ± 2 mm (10.12 inches)
Width: Container	132 ± 2 mm (5.20 inches)
Height:	200 ± 2 mm (7.87 inches)
Total Height (with terminal):	200 ± 2 mm (7.87 inches)
Approx Weight:	16.2 kg (35.7 lbs)

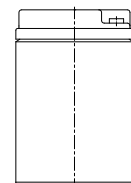
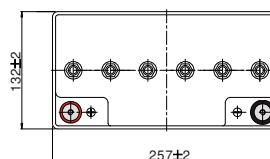
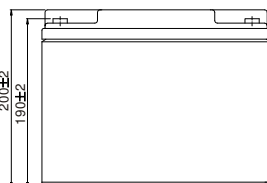
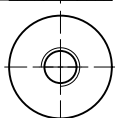
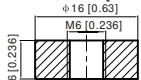
Specifications

	Nominal Voltage	12V
	(C10, 1.80V/cell)	45AH
Terminal Option	T6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr, 2.25A, 1.80V/cell)	45.0 Ah
	(10hr, 4.20A, 1.75V/cell)	42.0 Ah
	(5hr, 7.20A, 1.75V/cell)	36.0 Ah
	(3hr, 10.4A, 1.75V/cell)	31.2 Ah
	(1hr, 24.8A, 1.67V/cell)	24.8 Ah
Max Discharge Current (5s)	450 A	
Internal Resistance	Approx. 9.6mΩ	
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 11.25A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV°C
Capacity affected by Temperature	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%
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

T6 Terminal

Unit: mm [inches]



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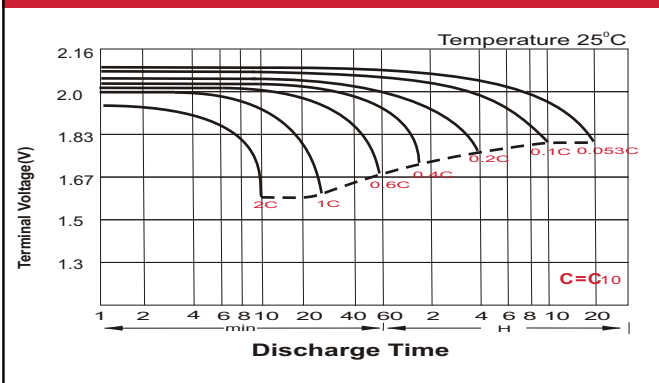
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	38.1	29.9	22.8	19.1	12.1	9.23	7.64	6.60	5.69	5.04	4.55	4.16	3.75	2.16
1.80V/cell	43.6	33.4	25.1	21.1	13.1	9.89	8.10	6.93	5.98	5.28	4.76	4.37	3.92	2.25
1.75V/cell	49.0	36.7	27.2	22.5	13.9	10.4	8.48	7.20	6.19	5.46	4.92	4.50	4.20	2.30
1.70V/cell	52.8	39.3	28.9	23.9	14.7	10.9	8.76	7.43	6.41	5.64	5.06	4.62	4.29	2.32
1.67V/cell	54.9	40.9	29.9	24.8	15.1	11.2	8.98	7.58	6.51	5.73	5.14	4.68	4.35	2.35
1.60V/cell	59.5	43.7	32.1	26.3	15.7	11.7	9.32	7.81	6.67	5.85	5.23	4.78	4.43	2.38

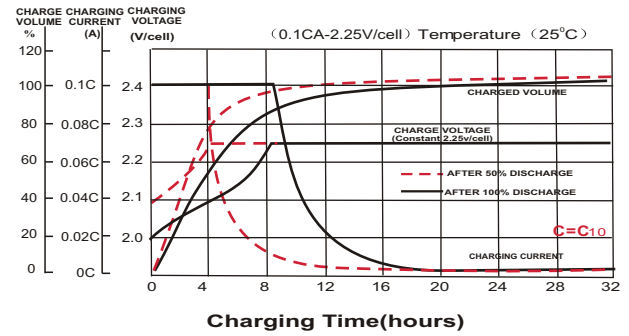
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	72.9	57.6	44.2	37.1	23.7	18.1	15.0	13.0	11.3	10.0	9.04	8.28	7.49	4.31
1.80V/cell	82.4	63.7	48.4	40.8	25.5	19.3	15.9	13.6	11.8	10.4	9.45	8.68	7.80	4.48
1.75V/cell	91.5	69.5	51.9	43.4	26.9	20.3	16.6	14.1	12.2	10.8	9.73	8.93	7.95	4.57
1.70V/cell	97.5	73.7	54.7	45.7	28.4	21.1	17.1	14.5	12.6	11.1	10.0	9.16	8.13	4.62
1.67V/cell	100.4	75.8	56.3	47.1	29.0	21.7	17.4	14.8	12.7	11.3	10.1	9.26	8.21	4.66
1.60V/cell	107.6	80.4	60.0	49.8	30.0	22.5	18.0	15.2	13.0	11.5	10.3	9.44	8.36	4.72

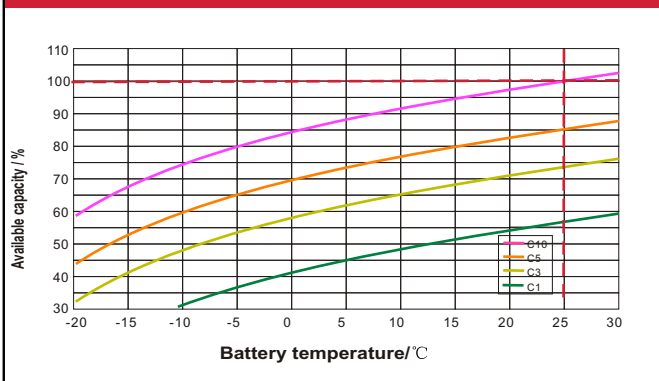
Discharge Characteristics



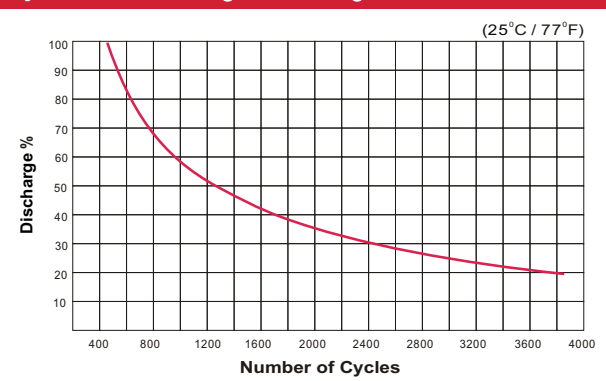
Float Charging Characteristics



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