

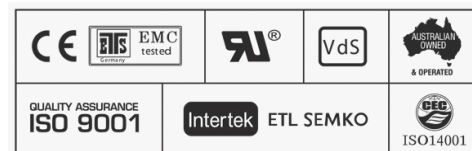
Specifications

Part Number	CBG12V240AH	
Nominal Voltage	12 Volt	
Nominal Capacity (20 HR)	240 AH	
Dimension	Length	522 +/-2mm (20.51 inches)
	Width	268 +/-2mm (10.53 inches)
	Container Height	220 +/-2mm (8.65 inches)
	Total Height	226 +/-2mm (8.88 inches)
Approx Weight	77.7 kg (171.25lbs)	
Terminal	T11	
Terminal Torque	11 - 14.7 Nm	
Container Material	ABS	
Rated Capacity	240.0 AH / 12.0A	(20hr, 1.80V/cell, 25°C/77°F)
	219.0 AH / 21.9A	(10hr, 1.80V/cell, 25°C/77°F)
	192.0 AH / 38.4A	(5hr, 1.75V/cell, 25°C/77°F)
	167.1 AH / 55.7A	(3hr, 1.75V/cell, 25°C/77°F)
	132.0 AH / 132.0A	(1hr, 1.60V/cell, 25°C/77°F)
Plate Type	Advanced Cycle Alloy	
Separator Type	Special Microporous Gel	
Max. Discharge Current	1960A (5s)	
Short Circuit Current	4320	
Internal Resistance	Approx 3.0mΩ	
Warranty - Cyclic Use	12 Months	
Warranty - Standby & Backup Power	12 Months	
Warranty - Marine	Not Covered	
Warranty - Starting	Not Covered	
Warranty - Solar	12 Months	
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°C +/-3° (77°F +/-5°)	
Cycle Use	Initial Charging Current less than 60.0A. 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)	1.03
	25°C (77°F)	1
	0°C (32°F)	0.86
Self Discharge	Fusion CBG Series batteries can be stored for up to 9 months at 25° C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- * Mobility Scooters
- * Wheelchairs
- * Golf Trolleys and Golf Cart
- * Toys
- * Power Tools
- * Solar Power Stations
- * Pump Systems
- * Marine Equipment
- * Caravans, Campervans & Motorhomes
- * Portable Power
- * Medical Equipment
- * DC Power Supply
- * Telecommunication Systems
- * Electric Power System (EPS)
- * Railway Signal
- * Aircraft Signal
- * Communication Power Supply



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

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	-	203	159.4	121.6	101.8	64.6	49.2	40.7	35.2	30.4	26.9	24.2		22.2		21	11.5
1.80V/cell	-	232.6	178.1	134.1	112.3	69.8	52.7	43.2	37	31.9	28.1	25.4		23.3		21.9	12
1.75V/cell	-	261.4	195.8	145	120.2	74	55.7	45.2	38.4	33	29.1	26.2		24		22.3	12.2
1.70V/cell	-	281.5	209.8	153.9	127.2	78.5	58	46.7	39.6	34.2	30.1	27		24.6		22.8	12.4
1.65V/cell	-	293	217.9	159.4	132	80.5	59.8	47.9	40.4	34.7	30.5	27.4		25		23.1	12.5
1.60V/cell	-	317.5	233.3	171.2	140.2	83.8	62.2	49.7	41.7	35.6	31.2	27.9		25.5		23.6	12.7

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

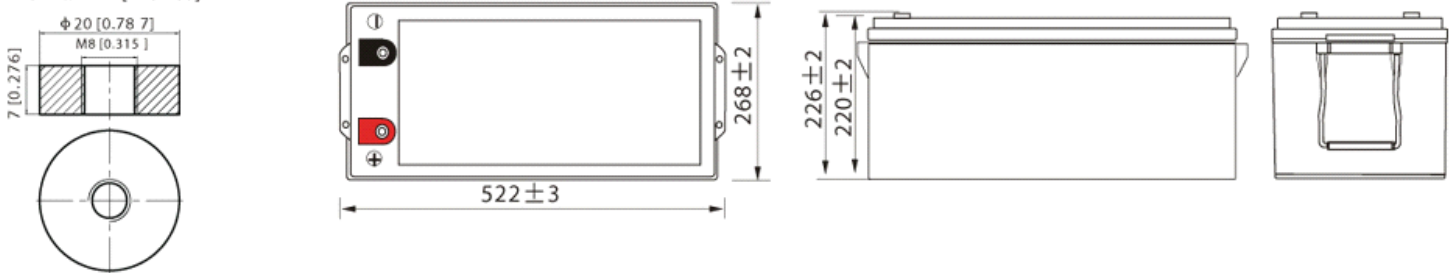
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	-	388.6	307.1	235.8	198.1	126.2	96.4	80.1	69.5	60.1	53.4	48.2		44.1		41.8	23

1.80V/cell	-	439.3	340	258.1	217.6	135.9	102.9	84.6	72.7	62.9	55.7	50.4	46.3	43.6	23.9
1.75V/cell	-	488.2	370.5	277	231.7	143.6	108.5	88.4	75.3	65	57.5	51.9	47.6	44.4	24.4
1.70V/cell	-	520.2	393.3	292	243.8	151.5	112.6	91	77.4	67.1	59.3	53.4	48.9	45.4	24.7
1.65V/cell	-	535.4	404.4	300.3	251.5	154.6	115.7	93	78.8	68	60	54.1	49.4	45.8	24.9
1.60V/cell	-	573.8	428.8	320.1	265.6	160.1	119.8	96.2	81	69.4	61.2	54.9	50.3	46.7	25.2

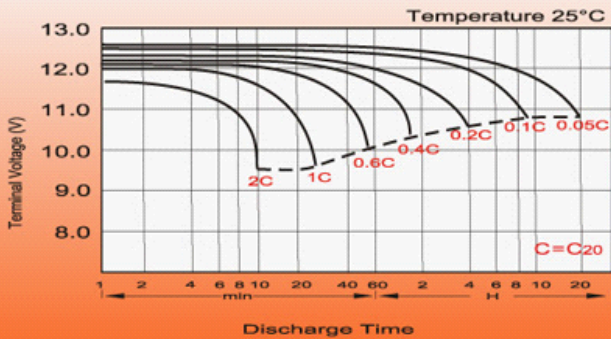
Dimensions

T11 Terminal

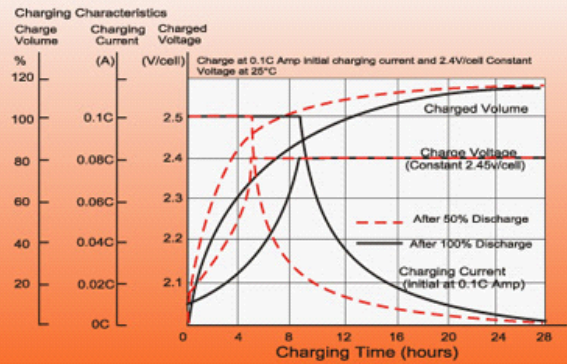
Unit: mm [inches]



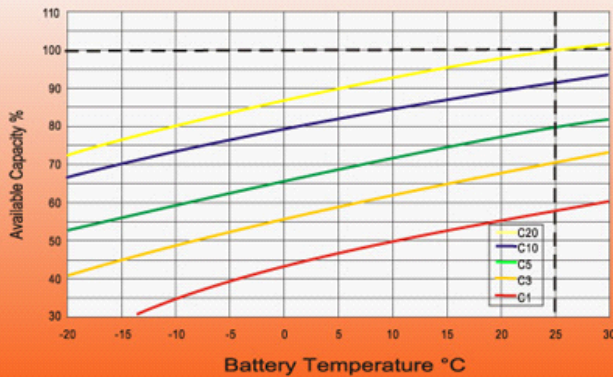
Discharge Characteristics



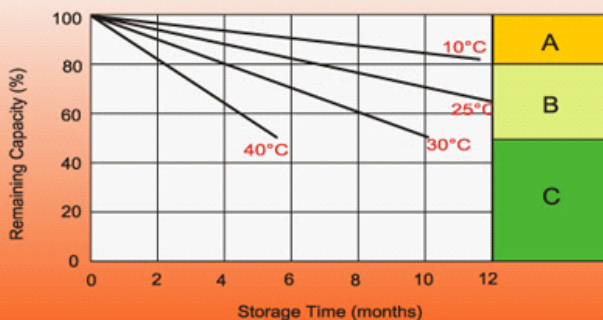
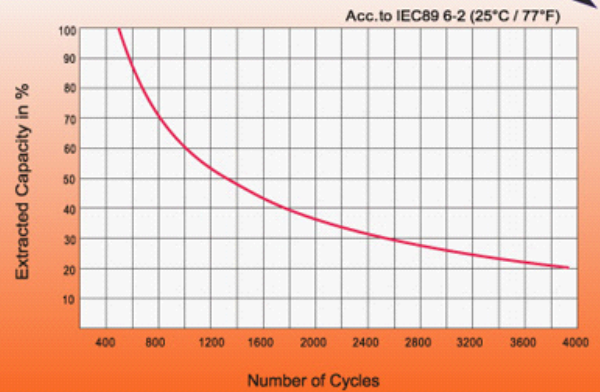
Charging Characteristics (Cycle Use)



Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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