

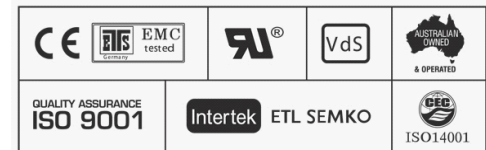
**Specifications**

<b>Part Number</b>	<b>CBC12V100AH</b>		
<b>Nominal Voltage</b>	12 Volt		
<b>Nominal Capacity (20 HR)</b>	100 AH		
<b>CCA</b>	860		
<b>Dimension</b>	Length	330 +/-2mm (12.97 inches)	
	Width	173 +/-2mm (6.8 inches)	
	Container Height	212 +/-2mm (8.33 inches)	
	Total Height	220 +/-2mm (8.65 inches)	
<b>Approx Weight</b>	30 kg (66.12lbs)		
<b>Terminal</b>	T11		
<b>Terminal Torque</b>	11 - 14.7 Nm		
<b>Container Material</b>	ABS Fire Retardant		
<b>Rated Capacity</b>	107.2 AH / 5.36A	(20hr, 1.80V/cell, 25°C/77°F)	
	100.0 AH / 10.0A	(10hr, 1.80V/cell, 25°C/77°F)	
	87.7 AH / 17.5A	(5hr, 1.75V/cell, 25°C/77°F)	
	79.5 AH / 26.5A	(3hr, 1.75V/cell, 25°C/77°F)	
	64.6 AH / 64.6A	(1hr, 1.60V/cell, 25°C/77°F)	
<b>Plate Type</b>	Advanced Cycle Alloy		
<b>Separator Type</b>	Absorbed Glass Matt		
<b>Max. Discharge Current</b>	1200A (5s)		
<b>Short Circuit Current</b>	2400		
<b>Internal Resistance</b>	Approx 4.9mΩ		
<b>Warranty - Cyclic Use</b>	12 Months		
<b>Warranty - Standby &amp; Backup Power</b>	36 Months		
<b>Warranty - Marine</b>	12 Months		
<b>Warranty - Starting</b>	12 Months		
<b>Warranty - Solar</b>	12 Months		
<b>Operating Temp. Range</b>	Discharge	-15 ~ 50°C (5 ~ 122°F)	
	Charge	0 ~ 40°C (32 ~ 104°F)	
	Storage	-15 ~ 40°C (5 ~ 104°F)	
<b>Nominal Operating Temp. Range</b>	25°C +/-3° (77°F +/-5°)		
<b>Cycle Use</b>	Initial Charging Current less than 30.0A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C		
<b>Standby Use</b>	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F)Temp. Coefficient -20mV/°C		
<b>Capacity affected by temperature</b>	40°C (104°F)		1.03
	25°C (77°F)		1
	0°C (32°F)		0.86
<b>Self Discharge</b>	Fusion CBC Series batteries can be stored for up to 6 months at 25° C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		



**Applications**

- ✦ Emergency Lighting Systems
- ✦ Fire & Security Systems
- ✦ Cars & other Starting Applications
- ✦ Marine Equipment
- ✦ Caravans, Campervans & Motorhomes
- ✦ Medical Equipment
- ✦ Power Tools
- ✦ Toys
- ✦ Uninterruptible Power Supply (UPS)
- ✦ Portable Power
- ✦ Emergency Backup Power Supply
- ✦ Railway Signal
- ✦ Aircraft Signal
- ✦ Communication Power Supply
- ✦ DC Power Supply
- ✦ Solar Power Stations
- ✦ Pump Systems



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

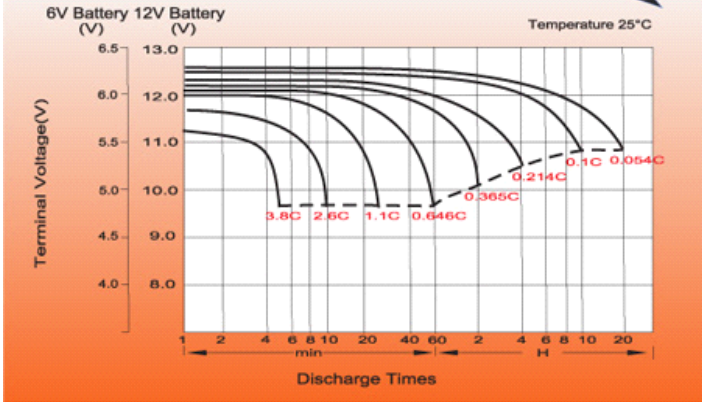
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	146.4	123.2	107.7	77.5	61.5	49.9	31	24.2	19.6	15.9	13.9	11.3	9.4	5.31
1.80V/cell	-	187.1	148.9	127.3	91.4	71.6	55.9	33.9	26	20.9	17.1	14.9	12	10	5.36
1.75V/cell	-	205.6	162.6	136.9	94.9	74.3	58.5	35.1	26.5	21.4	17.5	15.3	12.2	10.1	5.41
1.70V/cell	-	224.1	173.6	143.9	98.8	77.2	60.4	36.5	27.2	22	18	15.6	12.4	10.2	5.51
1.65V/cell	-	241.8	184.6	152.8	104.2	79.2	62.4	37.5	28.4	22.7	18.5	16	12.6	10.4	5.58
1.60V/cell	-	262.5	197.4	162.8	110	82.5	64.6	38.8	29.3	23.4	19.1	16.3	12.7	10.5	5.61

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

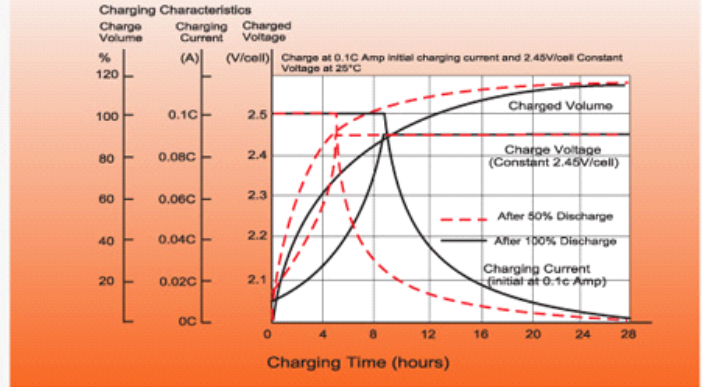
F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	-	273.2	232.3	205.2	148.8	119	96.9	60.4	47.2	38.4	31.3	27.4	22.4	18.7	10.6
1.80V/cell	-	344.4	276.5	238.8	173.5	137.3	107.9	65.6	50.6	40.8	33.5	29.3	23.7	19.8	10.7
1.75V/cell	-	373.8	299.1	254.8	179.3	141.8	112.5	67.8	51.4	41.6	34.3	30.1	24.1	20	10.8
1.70V/cell	-	401.7	316.9	266.3	185.8	147	115.7	70.3	52.7	42.6	35.1	30.7	24.5	20.2	11
1.65V/cell	-	430.4	334.8	281.5	195.2	150.2	119.2	72.1	54.8	44	36	31.3	24.8	20.6	11.1
1.60V/cell	-	459.4	353.8	296.8	204	155.1	122.5	74.1	56.2	45.1	37	31.9	25	20.8	11.2

## Dimensions

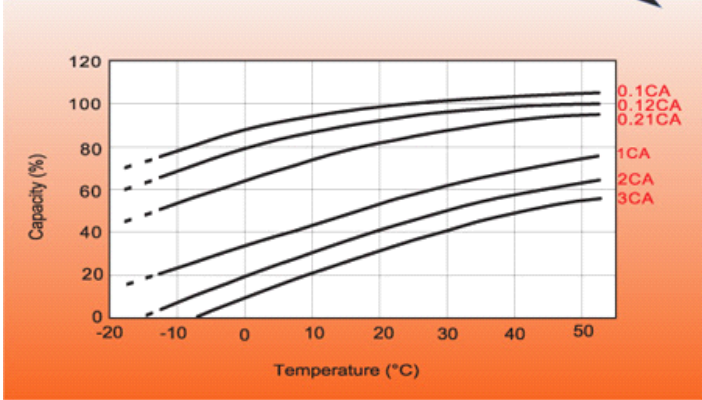
### Discharge Characteristics



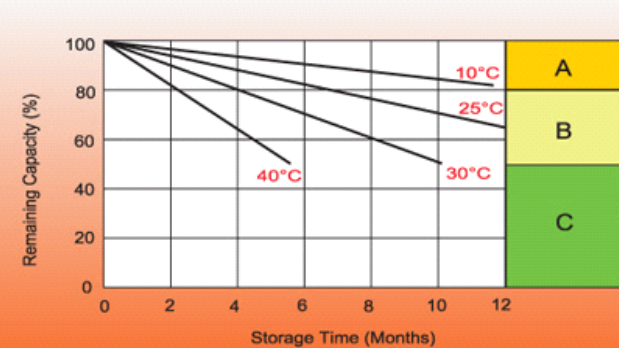
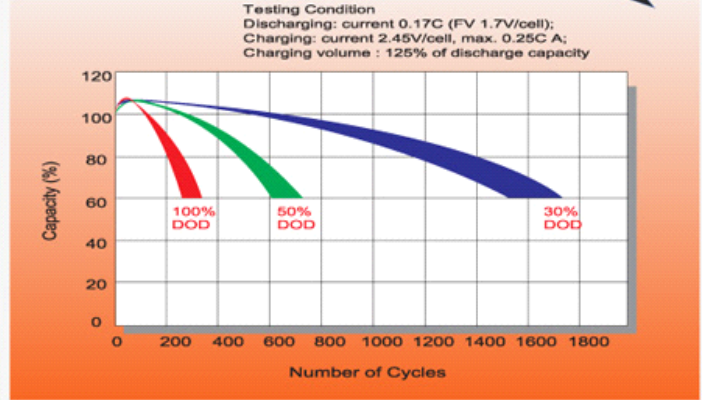
### Charging Characteristics (cycle use)



### 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 0.25C A and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25C A and constant voltage 2.45V/cell.
  3. Charged for 8~10 hours at limited current 0.05C A.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.

## Head Office

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