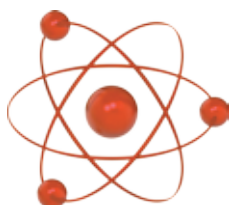


FUSION

AGM BATTERIES



CBC SERIES - Deep Cycle

CBC12V75AH

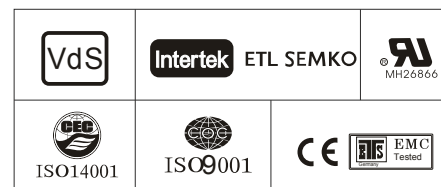
Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	75.0AH	
Dimensions	Length	260+/-3mm
	Width	168+/-2mm
	Container Height	208+/-3mm
	Total Height (with Terminal)	214+/-3mm
Approx Weight	Approx 22.3 kg	
Terminal	T6	
Container Material	ABS	
Rated Capacity	80.4 AH/4.02A	(20hr ,1.80V/cell, 25°C)
	75.0 AH/7.50A	(10hr,1.80V/cell, 25°C)
	65.8 AH/13.2A	(5hr,1.75V/cell, 25°C)
	59.6 AH/19.9A	(3hr,1.75V/cell, 25°C)
	48.5 AH/48.5A	(1hr,1.60V/cell, 25°C)
Max. Discharge Current	900A (5s)	
Internal Resistance	Approx 6.6m Ω	
Operating Temp. Range	Discharge	: -15~50°C
	Charge	: 0~40°C
	Storage	: -15~40°C
Nominal Operating Temp. Range	25° +/-3°C	
Cycle Use	Initial Charging current less than 22.5A. Voltage 14.4V~15.0.5 V at 25°C Temp Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current. Voltage 13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C	
Capacity Affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	Fusion CBC Series batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ♦ Electric tools
- ♦ Vehicle in place of walking
- ♦ Lawn mowers
- ♦ Golf trolleys and golf cart
- ♦ Portable apparatus, lights and instruments;
- ♦ Electric toys
- ♦ Illumination light
- ♦ Fire alarms
- ♦ Portable power
- ♦ Wheelchairs
- ♦ Medical equipments.



Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	109.8	92.4	80.7	58.1	46.1	37.4	23.3	18.1	14.7	11.9	10.4	8.50	7.08	3.98
1.80V/cell	140.3	111.6	95.4	68.6	53.7	41.9	25.4	19.5	15.7	12.8	11.2	9.02	7.50	4.02
1.75V/cell	154.2	121.9	102.7	71.2	55.7	43.9	26.3	19.9	16.0	13.2	11.5	9.17	7.58	4.06
1.70V/cell	168.0	130.2	107.9	74.1	57.9	45.3	27.4	20.4	16.5	13.5	11.7	9.30	7.65	4.13
1.65V/cell	181.4	138.4	114.6	78.1	59.4	46.8	28.1	21.3	17.0	13.9	12.0	9.45	7.81	4.19
1.60V/cell	196.9	148.1	122.1	82.5	61.9	48.5	29.1	22.0	17.6	14.3	12.2	9.54	7.89	4.21

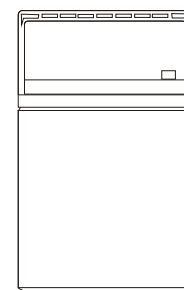
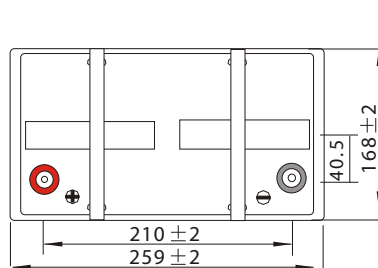
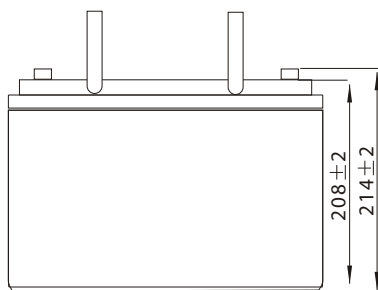
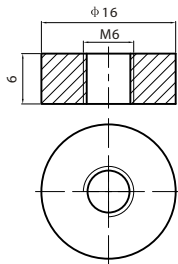
Constant Power Discharge (Watts/cell) at 25 °C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	204.9	174.2	153.9	111.6	89.3	72.7	45.3	35.4	28.8	23.4	20.6	16.8	14.0	7.97
1.80V/cell	258.3	207.3	179.1	130.1	103.0	80.9	49.2	37.9	30.6	25.1	22.0	17.8	14.8	8.03
1.75V/cell	280.3	224.3	191.1	134.4	106.3	84.4	50.9	38.5	31.2	25.7	22.6	18.1	15.0	8.10
1.70V/cell	301.3	237.7	199.7	139.4	110.3	86.8	52.7	39.5	31.9	26.3	23.0	18.3	15.1	8.24
1.65V/cell	322.8	251.1	211.1	146.4	112.6	89.4	54.1	41.1	33.0	27.0	23.5	18.6	15.4	8.34
1.60V/cell	344.5	265.4	222.6	153.0	116.3	91.8	55.5	42.1	33.9	27.7	23.9	18.8	15.6	8.37

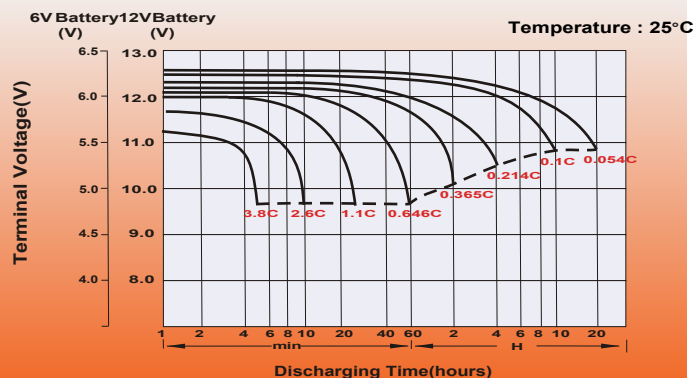
Dimensions

T6 Terminal

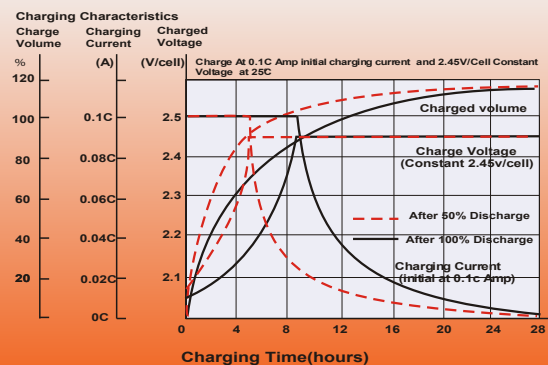
Unit: mm



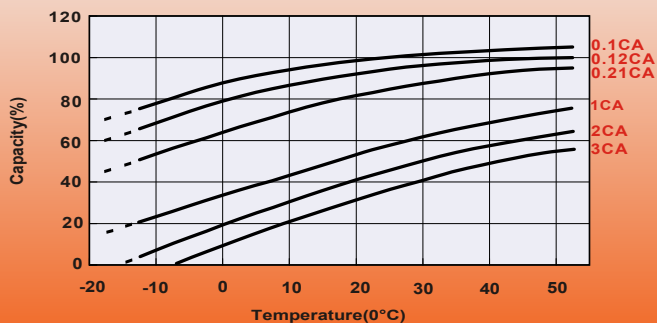
Discharge Characteristics



Charging Characteristics (cycle use)

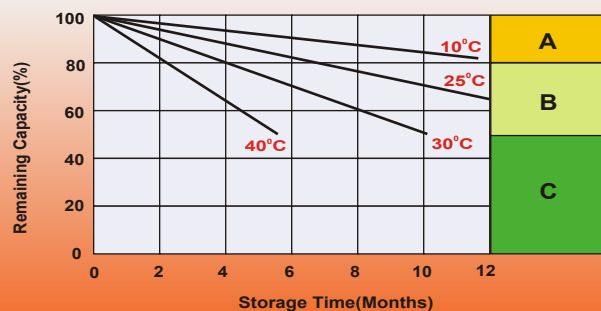
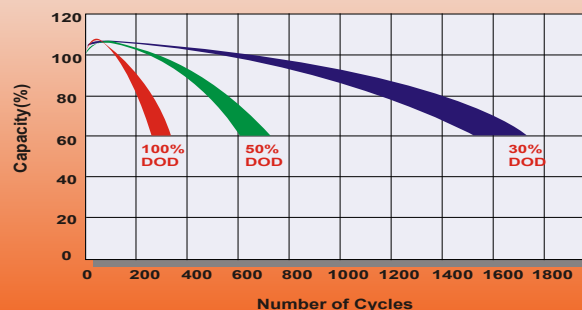


Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge

Testing condition
Discharging : current 0.17 C A (FV 1.7 V / cell);
Charging : current 0.25 C max , voltage 2.45 V / cell;
Charging volume: 125% of discharged capacity.



A

No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
Supplementary charge required before use.
Optional charging way as below:

B

1.Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours 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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