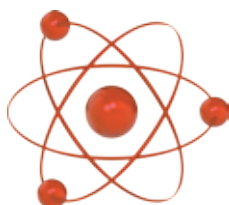


FUSION

AGM BATTERIES



CBC SERIES - Deep Cycle

CBC12V33AH

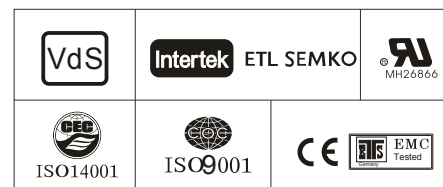
Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	33.0AH	
Dimensions	Length	195+/-2mm
	Width	130+/-2mm
	Container Height	164+/-2mm
	Total Height (with Terminal)	182+/-2mm
Approx Weight	Approx 11.65 kg	
Terminal	T5	
Container Material	ABS	
Rated Capacity	35.4 AH/1.77A	(20hr , 1.80V/cell, 25°C)
	33.0 AH/3.30A	(10hr, 1.80V/cell, 25°C)
	28.9 AH/5.79A	(5hr, 1.75V/cell, 25°C)
	26.2 AH/8.75A	(3hr, 1.75V/cell, 25°C)
	21.3 AH/21.3A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current	495A (5s)	
Internal Resistance	Approx 11.0mΩ	
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 9.9A. 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

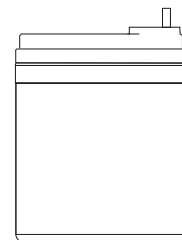
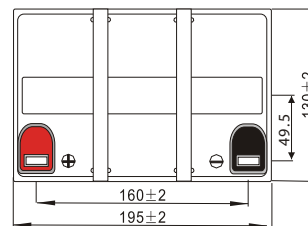
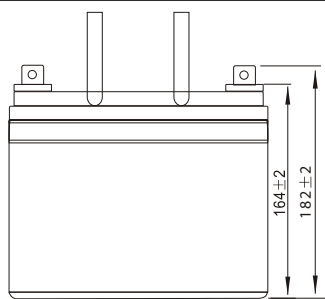
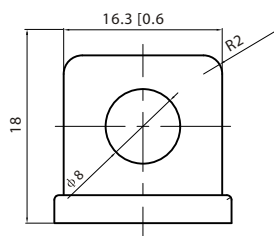
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	48.3	40.7	35.5	25.6	20.3	16.5	10.2	7.98	6.46	5.25	4.58	3.74	3.12	1.75
1.80V/cell	61.7	49.1	42.0	30.2	23.6	18.5	11.2	8.59	6.90	5.64	4.91	3.97	3.30	1.77
1.75V/cell	67.8	53.7	45.2	31.3	24.5	19.3	11.6	8.75	7.06	5.79	5.05	4.04	3.33	1.79
1.70V/cell	73.9	57.3	47.5	32.6	25.5	19.9	12.0	8.99	7.24	5.93	5.15	4.09	3.37	1.82
1.65V/cell	79.8	60.9	50.4	34.4	26.1	20.6	12.4	9.37	7.49	6.10	5.27	4.16	3.44	1.84
1.60V/cell	86.6	65.1	53.7	36.3	27.2	21.3	12.8	9.66	7.73	6.30	5.38	4.20	3.47	1.85

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

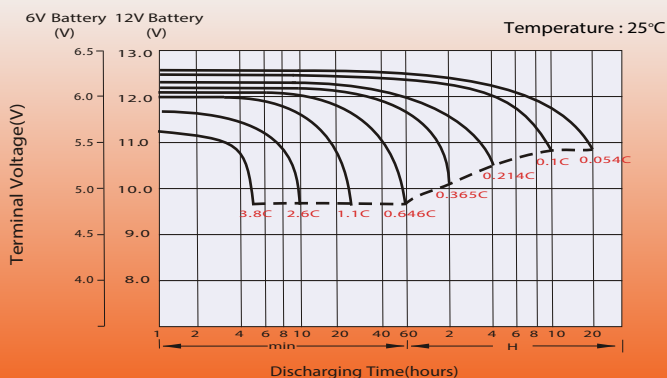
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	90.1	76.6	67.7	49.1	39.3	32.0	19.9	15.6	12.7	10.3	9.05	7.40	6.17	3.51
1.80V/cell	113.6	91.2	78.8	57.3	45.3	35.6	21.6	16.7	13.4	11.0	9.67	7.84	6.53	3.53
1.75V/cell	123.3	98.7	84.1	59.2	46.8	37.1	22.4	17.0	13.7	11.3	9.92	7.96	6.59	3.56
1.70V/cell	132.6	104.6	87.9	61.3	48.5	38.2	23.2	17.4	14.1	11.6	10.1	8.07	6.65	3.63
1.65V/cell	142.0	110.5	92.9	64.4	49.6	39.3	23.8	18.1	14.5	11.9	10.3	8.19	6.78	3.67
1.60V/cell	151.6	116.8	97.9	67.3	51.2	40.4	24.4	18.5	14.9	12.2	10.5	8.26	6.85	3.68

Dimensions

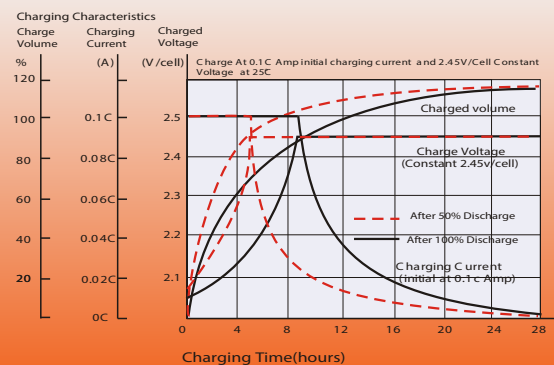
T5 Terminal Unit: mm



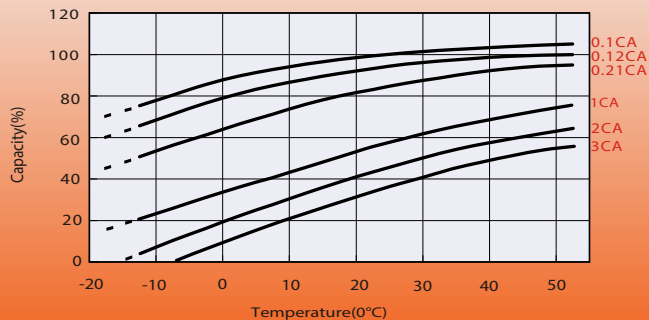
Discharge Characteristics



Charging Characteristics (cycle use)

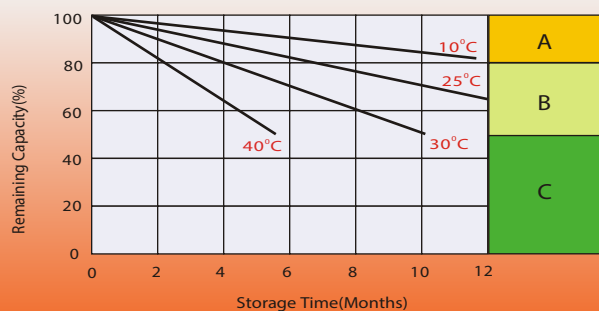
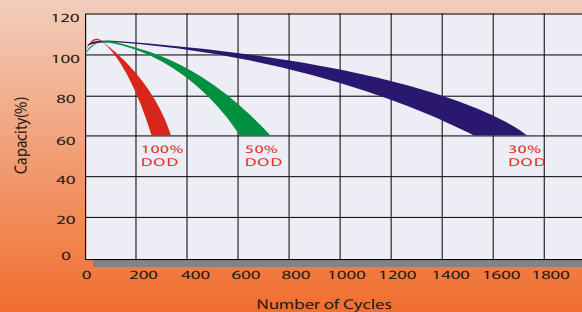


Temperature Effects in Relation to Battery Capacity



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 voltage 2.25V/cell.
2.Charged for above 20hours at limited current 0.25CA and constant voltage 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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