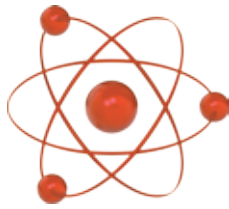


FUSION

AGM BATTERIES



CBC SERIES - Deep Cycle

CBC12V40AH

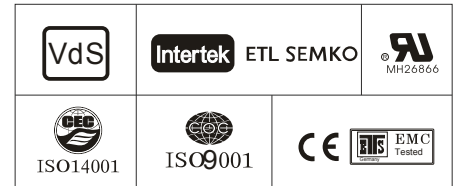
Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	40.0AH	
Dimensions	Length	197+/-2mm
	Width	165+/-2mm
	Container Height	170+/-2mm
	Total Height (with Terminal)	170+/-2mm
Approx Weight	Approx 14.2 kg	
Terminal	T6	
Container Material	ABS	
Rated Capacity	40.8 AH/2.04A	(20hr, 1.80V/cell, 25°C)
	38.0 AH/3.80A	(10hr, 1.80V/cell, 25°C)
	33.4AH/6.67A	(5hr, 1.75V/cell, 25°C)
	30.3 AH/10.1A	(3hr, 1.75V/cell, 25°C)
	24.5 AH/24.5A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current	456A (5s)	
Internal Resistance	Approx 9.0m 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 11.4A.	
	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

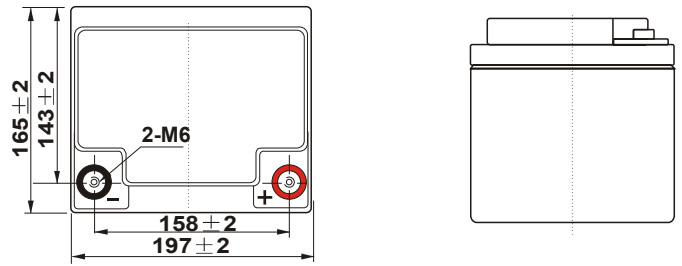
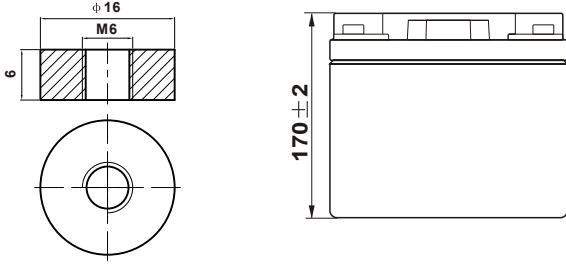
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.6	46.8	40.9	29.4	23.4	19.0	11.8	9.19	7.44	6.05	5.28	4.31	3.59	2.02
1.80V/cell	71.1	56.6	48.4	34.7	27.2	21.3	12.9	9.89	7.95	6.49	5.66	4.57	3.80	2.04
1.75V/cell	78.1	61.8	52.0	36.1	28.2	22.2	13.3	10.1	8.12	6.67	5.81	4.65	3.84	2.06
1.70V/cell	85.1	66.0	54.7	37.5	29.3	22.9	13.9	10.4	8.34	6.83	5.94	4.71	3.88	2.09
1.65V/cell	91.9	70.1	58.1	39.6	30.1	23.7	14.3	10.8	8.63	7.02	6.06	4.79	3.96	2.12
1.60V/cell	99.8	75.0	61.9	41.8	31.4	24.5	14.7	11.1	8.90	7.25	6.20	4.83	4.00	2.13

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

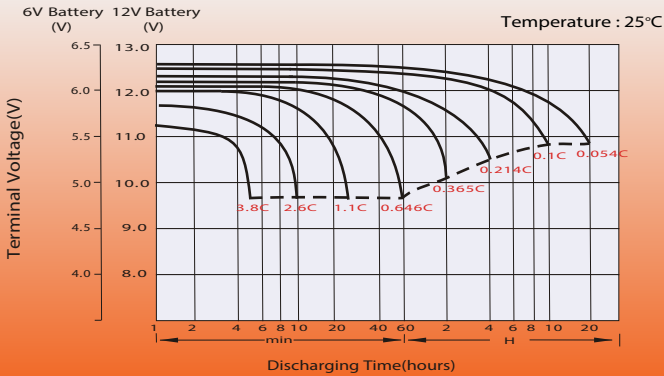
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.8	88.3	78.0	56.6	45.2	36.8	23.0	18.0	14.6	11.9	10.42	8.52	7.11	4.04
1.80V/cell	130.9	105.1	90.8	65.9	52.2	41.0	24.9	19.2	15.5	12.7	11.14	9.02	7.52	4.07
1.75V/cell	142.0	113.6	96.8	68.1	53.9	42.7	25.8	19.5	15.8	13.0	11.43	9.17	7.59	4.10
1.70V/cell	152.6	120.4	101.2	70.6	55.9	44.0	26.7	20.0	16.2	13.3	11.65	9.29	7.66	4.18
1.65V/cell	163.6	127.2	107.0	74.2	57.1	45.3	27.4	20.8	16.7	13.7	11.89	9.43	7.81	4.22
1.60V/cell	174.6	134.4	112.8	77.5	58.9	46.5	28.1	21.4	17.2	14.1	12.12	9.51	7.89	4.24

Dimensions

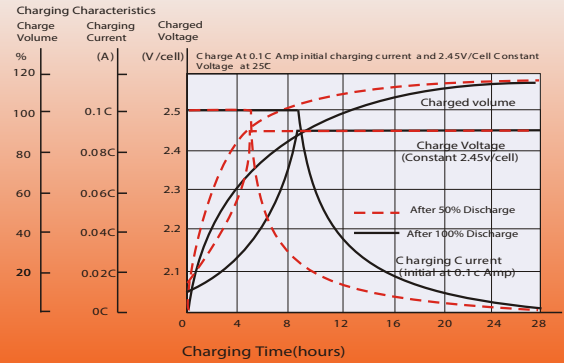
T6 Terminal Unit:mm



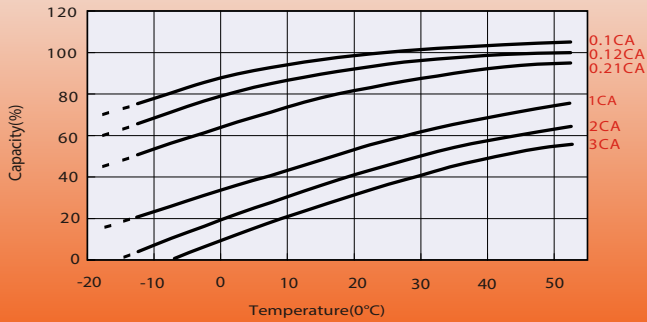
Discharge Characteristics



Charging Characteristics (cycle use)

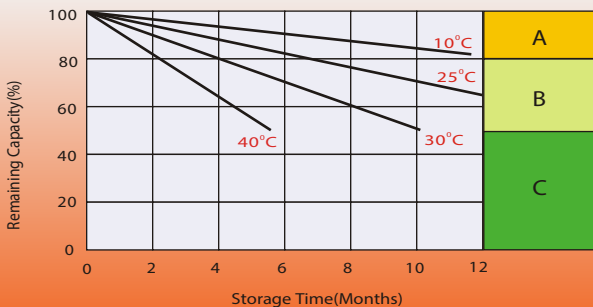
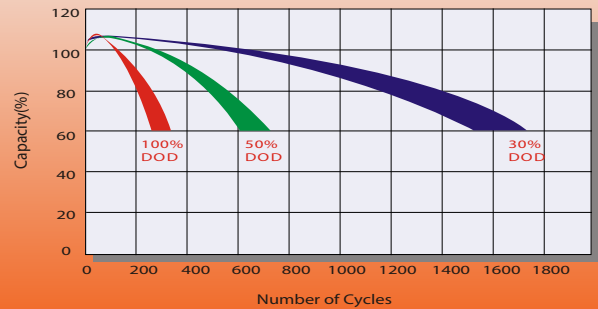


Temperature Effects in Relation to Battery Capacity



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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