

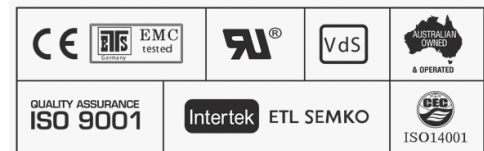
**Specifications**

<b>Part Number</b>	<b>CBS2V3500AH</b>	
<b>Nominal Voltage</b>	2 Volt	
<b>Nominal Capacity (20 HR)</b>	3500 AH	
<b>Dimension</b>	Length	709 +/-2mm (27.86 inches)
	Width	350 +/-2mm (13.76 inches)
	Container Height	337 +/-2mm (13.24 inches)
	Total Height	347 +/-2mm (13.64 inches)
<b>Approx Weight</b>	182 kg (401.13lbs)	
<b>Terminal</b>	T11	
<b>Terminal Torque</b>	11 - 14.7 Nm	
<b>Container Material</b>	ABS Fire Retardant	
<b>Rated Capacity</b>	3450.0 AH / 34.5A	(100hr ,1.80V/cell, 25°C/77°F)
	3210.0 AH / 160.5A	(20hr ,1.80V/cell, 25°C/77°F)
	3000.0 AH / 300.0A	(10hr,1.80V/cell, 25°C/77°F)
	2636.0 AH / 527.2A	(5hr,1.75V/cell, 25°C/77°F)
	-	(3hr,1.75V/cell, 25°C/77°F)
	1763.9 AH / 1763.9A	(1hr,1.60V/cell, 25°C/77°F)
<b>Plate Type</b>	Die-Cast	
<b>Separator Type</b>	Absorbed Glass Matt	
<b>Max. Discharge Current</b>	24000A (5s)	
<b>Short Circuit Current</b>	48000	
<b>Internal Resistance</b>	Approx 0.2mΩ	
<b>Design Life</b>	8 - 12 Years	
<b>Warranty - Solar</b>	3 Years	
<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 900.0A. Voltage 2.4V ~ 2.5V 25°C (77°F) Temp. Coefficient -5mV/°C	
<b>Standby Use</b>	No limit on Initial Charging Current Voltage 2.25V ~ 2.3V at 25°C (77°F)Temp. Coefficient -3mV/°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 CBS 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.	

**NO IMAGE  
AVAILABLE**

**Applications**

- \* Green Energy Systems (Solar, Wind, Hydro)
- \* Solar Power
- \* Communication Systems
- \* House Power
- \* Farm & Agricultural Power
- \* Other Speciality Applications



**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	48h	100h
1.85V/cell	-	-	-	-	2201.7	1747.2	1450.2	904.5	700	576.5	490.9	-	349.5	290.4	155	68.7	33.8
1.80V/cell	-	-	-	-	2362.4	1838.2	1540.7	955.5	733	602.2	511.5	-	360.5	300	160.5	69.8	34.5
1.75V/cell	-	-	-	-	2501.7	1932.8	1607.6	991.5	758	622.7	527.2	-	367.3	304.5	161.3	70.9	34.8
1.70V/cell	-	-	-	-	2624.9	2005.6	1663.9	1021.5	778	636.3	536.3	-	373	307.8	163.1	71.8	35.3
1.65V/cell	-	-	-	-	2753.5	2093	1723.5	1045.5	797	649.9	547.8	-	378.3	312.3	165.5	72.7	35.7
1.60V/cell	-	-	-	-	2847.4	2148.5	1763.9	1068	811	659	555.7	-	383.3	316.5	167.3	73.5	36.1

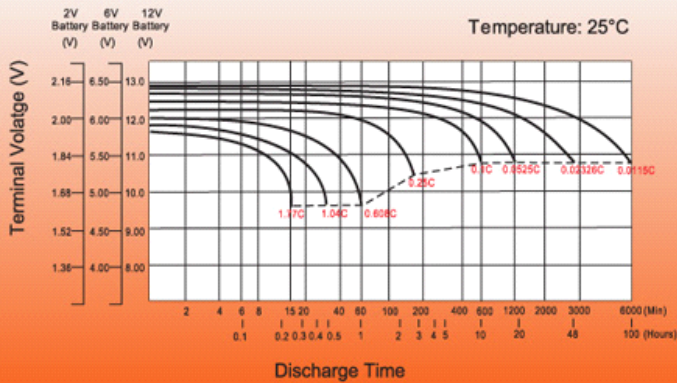
**Constant Power Discharge (Amperes) at 25°C (77°F)**

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	100h
1.85V/cell	-	-	-	-	4207.7	3359.3	2805.1	1759.3	1368	1130.6	967	-	693.5	577.6	308.5	136.9	67.5
1.80V/cell	-	-	-	-	4478.5	3511	2963.5	1849.7	1425.8	1177.1	1003.1	-	713.2	595.8	319.1	138.8	68.8
1.75V/cell	-	-	-	-	4706.5	3670.1	3078.6	1911.7	1470.5	1213	1030.5	-	725	604	320.2	140.9	69.4
1.70V/cell	-	-	-	-	4896.8	3781.8	3169.6	1961.3	1503.6	1234.4	1045.2	-	735.6	610.1	323.7	142.3	70.2

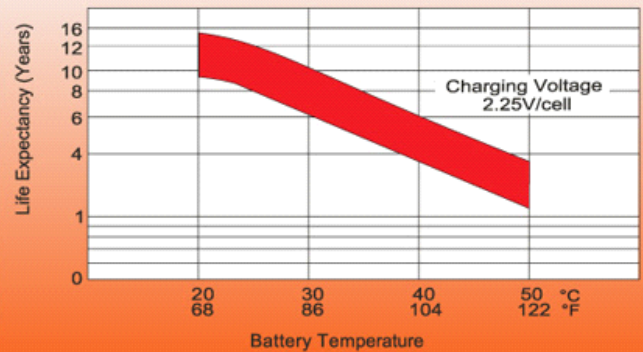
1.65V/cell	-	-	-	-	5098.4	3924.4	3264.4	1998.9	1533.6	1256.6	1063.9	-	744.2	618	328.1	144	70.9
1.60V/cell	-	-	-	-	5219.2	3990.8	3317.8	2029.2	1552.4	1268.6	1074.9	-	752.4	625.3	331	145.3	71.5

## Dimensions

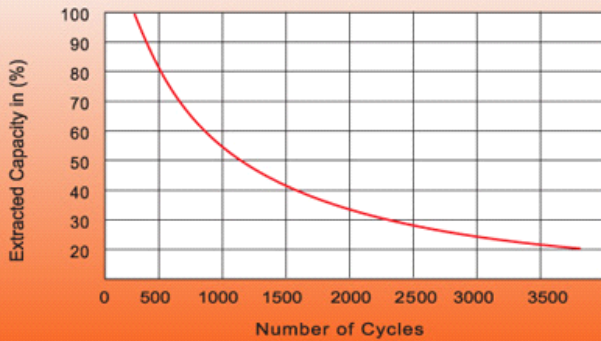
### Discharge Characteristics



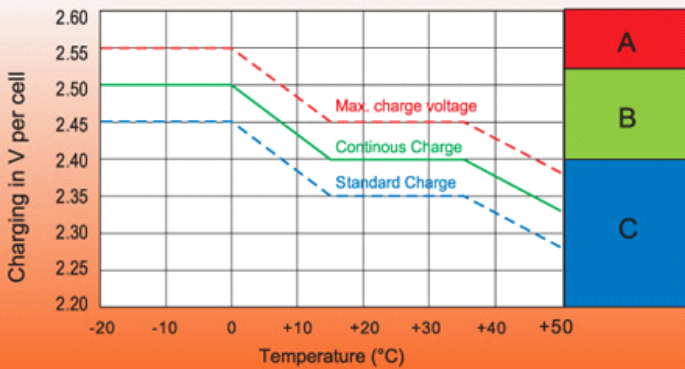
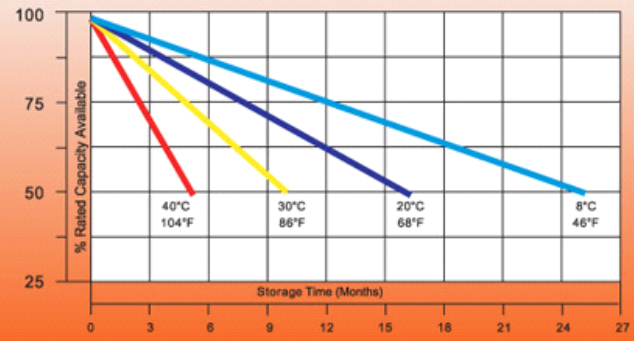
### Effect of Temperature on Long Term Float Life



### Cycle Service Life



### Self-Discharge at Different Temperatures



### Charge Mode

- A** With switch regulator (two-step controller) charge on curve max. charge voltage for max. 2 hrs/day then switch over to continuous charge.
- B** Standard charge without switching.
- C** Boost charge (Equalizing charge with external generator) charge on curve continuous charge for max. 5 hrs/month, then switch over to curve Standard charge.

## Head Office

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