

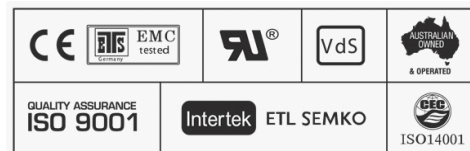
Specifications

Part Number	CBS2V700AH		
Nominal Voltage	2 Volt		
Nominal Capacity (20 HR)	700 AH		
Dimension	Length	300 +/-2mm (11.79 inches)	
	Width	175 +/-2mm (6.88 inches)	
	Container Height	330 +/-2mm (12.97 inches)	
	Total Height	350 +/-2mm (13.76 inches)	
Approx Weight	36.6 kg (80.67lbs)		
Terminal	T11		
Terminal Torque	11 - 14.7 Nm		
Container Material	ABS Fire Retardant		
Rated Capacity	690.0 AH / 6.90A	(100hr ,1.80V/cell, 25°C/77°F)	
	642.0 AH / 32.1A	(20hr ,1.80V/cell, 25°C/77°F)	
	600.0 AH / 60.0A	(10hr,1.80V/cell, 25°C/77°F)	
	527.0 AH / 105.4A	(5hr,1.75V/cell, 25°C/77°F)	
	-	(3hr,1.75V/cell, 25°C/77°F)	
	352.8 AH / 352.8A	(1hr,1.60V/cell, 25°C/77°F)	
Plate Type	Die-Cast		
Separator Type	Absorbed Glass Matt		
Max. Discharge Current	4800A (5s)		
Short Circuit Current	9600		
Internal Resistance	Approx 0.55mΩ		
Design Life	8 - 12 Years		
Warranty - Solar	3 Years		
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)	
	Charge	0 ~ 40°C (32 ~ 104°F)	
	Storage	-15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	25°C +/-3° (77°F +/-5°)		
Cycle Use	Initial Charging Current less than 180.0A. Voltage 2.4V ~ 2.5V 25°C (77°F) Temp. Coefficient -5mV/°C		
Standby Use	No limit on Initial Charging Current Voltage 2.25V ~ 2.3V at 25°C (77°F)Temp. Coefficient -3mV/°C		
Capacity affected by temperature	40°C (104°F)	1.03	
	25°C (77°F)	1	
	0°C (32°F)	0.86	
Self Discharge	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.		



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	-	-	-	-	440.3	349.4	290	180.9	140	115.3	98.2	-	69.9	58.1	31	13.7	6.76
1.80V/cell	-	-	-	-	472.5	367.6	308.1	191.1	146.6	120.4	102.3	-	72.1	60	32.1	14	6.9
1.75V/cell	-	-	-	-	500.3	386.6	321.5	198.3	151.6	124.5	105.4	-	73.5	60.9	32.3	14.2	6.97
1.70V/cell	-	-	-	-	525	401.1	332.8	204.3	155.6	127.3	107.3	-	74.6	61.6	32.6	14.4	7.06
1.65V/cell	-	-	-	-	550.7	418.6	344.7	209.1	159.4	130	109.6	-	75.7	62.5	33.1	14.5	7.14
1.60V/cell	-	-	-	-	569.5	429.7	352.8	213.6	162.2	131.8	111.1	-	76.7	63.3	33.5	14.7	7.21

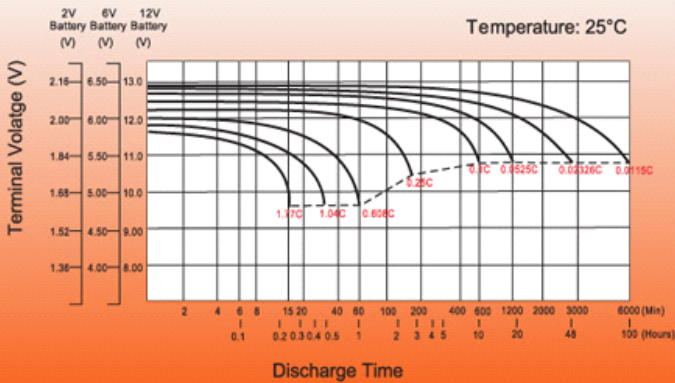
Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	100h
1.85V/cell	-	-	-	-	841.5	671.9	561	351.9	273.6	226.1	193.4	-	138.7	115.5	61.7	27.4	13.5
1.80V/cell	-	-	-	-	895.7	702.2	592.7	369.9	285.2	235.4	200.6	-	142.6	119.2	63.8	27.8	13.8
1.75V/cell	-	-	-	-	941.3	734	615.7	382.3	294.1	242.6	206.1	-	145	120.8	64	28.2	13.9
1.70V/cell	-	-	-	-	979.4	756.4	633.9	392.3	300.7	246.9	209	-	147.1	122	64.7	28.5	14

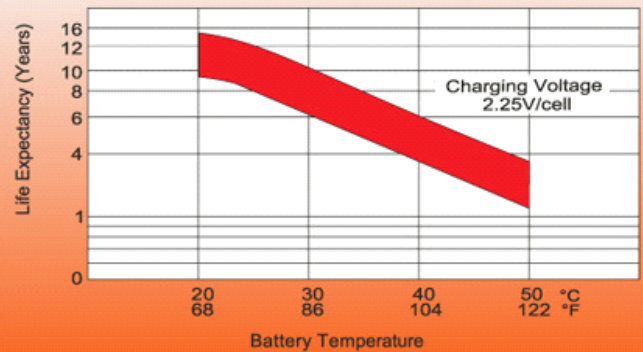
1.65V/cell	-	-	-	-	1019.7	784.9	652.9	399.8	306.7	251.3	212.8	-	148.8	123.6	65.6	28.8	14.2
1.60V/cell	-	-	-	-	1043.8	798.2	663.6	405.8	310.5	253.7	215	-	150.5	125.1	66.2	29.1	14.3

Dimensions

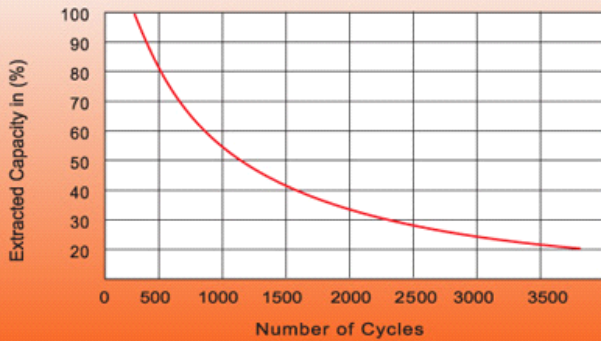
Discharge Characteristics



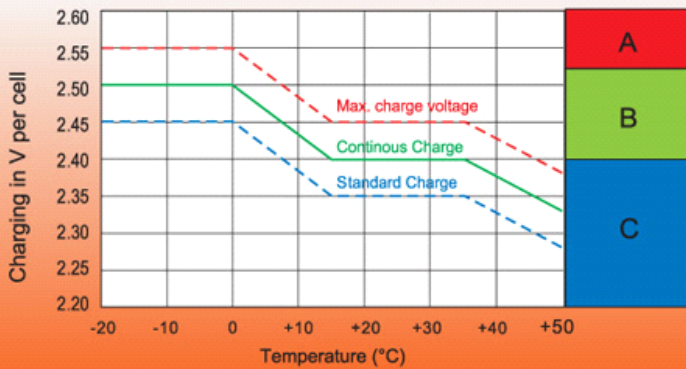
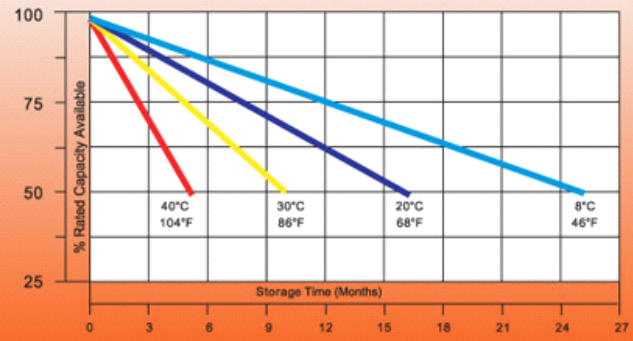
Effect of Temperature on Long Term Float Life



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

Unit 30
76 Hume Highway
LANSVALE NSW 2166
Tel: (02) 9755 7851 Fax: (02) 9755 7852
www.fusionagmbatteries.com.au

