

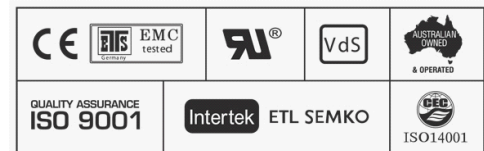
Specifications

Part Number	CBS2V2300AH		
Nominal Voltage	2 Volt		
Nominal Capacity (20 HR)	2300 AH		
Dimension	Length	490 +/-2mm (19.26 inches)	
	Width	350 +/-2mm (13.76 inches)	
	Container Height	339 +/-2mm (13.32 inches)	
	Total Height	349 +/-2mm (13.72 inches)	
Approx Weight	121 kg (266.68lbs)		
Terminal	T11		
Terminal Torque	11 - 14.7 Nm		
Container Material	ABS Fire Retardant		
Rated Capacity	2300.0AH / 23.0A	(100hr ,1.80V/cell, 25°C/77°F)	
	2140.0 AH / 107.0A	(20hr ,1.80V/cell, 25°C/77°F)	
	2000.0 AH / 200.0A	(10hr,1.80V/cell, 25°C/77°F)	
	1757.5 AH / 351.5A	(5hr,1.75V/cell, 25°C/77°F)	
	-	(3hr,1.75V/cell, 25°C/77°F)	
	1175.9 AH / 1175.9A	(1hr,1.60V/cell, 25°C/77°F)	
Plate Type	Die-Cast		
Separator Type	Absorbed Glass Matt		
Max. Discharge Current	16000A (5s)		
Short Circuit Current	32000		
Internal Resistance	Approx 0.28mΩ		
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 600.0A. 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.		

**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	-	-	-	-	1467.8	1164.8	966.8	603	466.7	384.3	327.2	-	233	193.6	103.3	45.8	22.5
1.80V/cell	-	-	-	-	1575	1225.5	1027.1	637	488.7	401.5	341	-	240.3	200	107	46.5	23
1.75V/cell	-	-	-	-	1667.8	1288.6	1071.7	661	505.3	415.1	351.5	-	244.9	203	107.5	47.3	23.2
1.70V/cell	-	-	-	-	1750	1337.1	1109.3	681	518.7	424.2	357.5	-	248.7	205.2	108.8	47.8	23.5
1.65V/cell	-	-	-	-	1835.7	1395.3	1149	697	531.3	433.3	365.2	-	252.2	208.2	110.3	48.5	23.8
1.60V/cell	-	-	-	-	1898.2	1432.3	1175.9	712	540.7	439.4	370.5	-	255.5	211	111.5	49	24

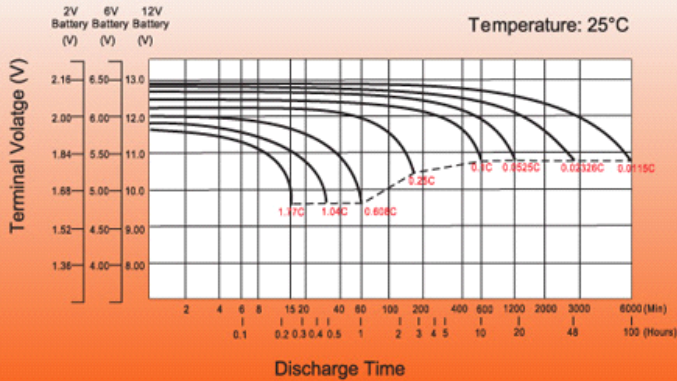
Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	100h
1.85V/cell	-	-	-	-	2805.2	2239.6	1870.1	1172.9	912	753.7	644.7	-	462.4	385.1	205.7	91.3	45
1.80V/cell	-	-	-	-	2985.7	2340.6	1975.7	1233.1	950.5	784.8	668.8	-	475.4	397.2	212.7	92.5	45.9
1.75V/cell	-	-	-	-	3137.7	2446.7	2052.4	1274.5	980.3	808.6	687	-	483.3	402.7	213.5	93.9	46.2
1.70V/cell	-	-	-	-	3264.5	2521.2	2113.1	1307.5	1002.4	822.9	696.8	-	490.4	406.7	215.8	94.9	46.8

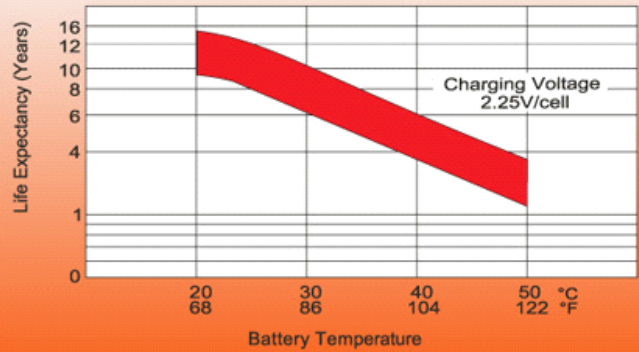
1.65V/cell	-	-	-	-	3398.9	2616.3	2176.3	1332.6	1022.4	837.8	709.2	-	496.1	412	218.7	96	47.3
1.60V/cell	-	-	-	-	3479.5	2660.5	2211.9	1352.8	1034.9	845.7	716.6	-	501.6	416.9	220.7	96.9	47.7

Dimensions

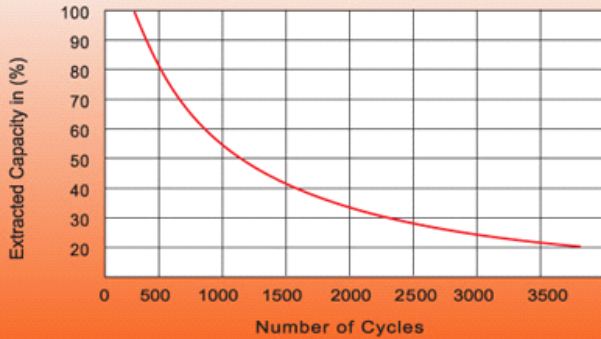
Discharge Characteristics



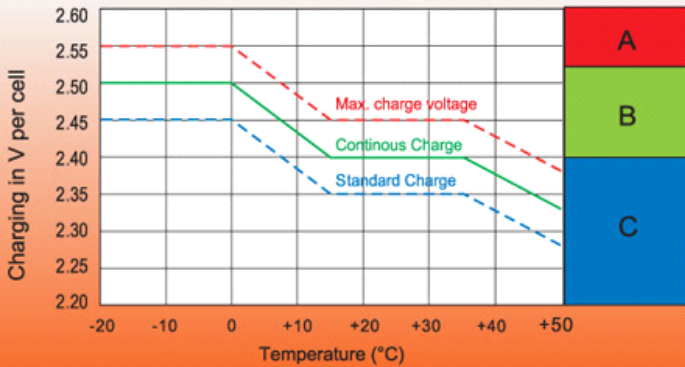
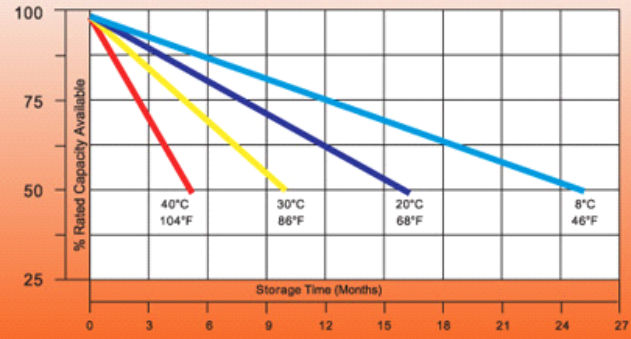
Effect of Temperature on Long Term Float Life



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

