

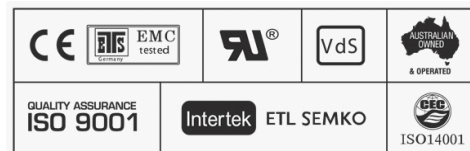
Specifications

Part Number	CBS2V1350AH		
Nominal Voltage	2 Volt		
Nominal Capacity (20 HR)	1350 AH		
Dimension	Length	475 +/-2mm (18.67 inches)	
	Width	175 +/-2mm (6.88 inches)	
	Container Height	328 +/-2mm (12.89 inches)	
	Total Height	350 +/-2mm (13.76 inches)	
Approx Weight	65.8 kg (145.02lbs)		
Terminal	T11		
Terminal Torque	11 - 14.7 Nm		
Container Material	ABS Fire Retardant		
Rated Capacity	1380.0 AH / 13.8A	(100hr ,1.80V/cell, 25°C/77°F)	
	1284.0 AH / 64.2A	(20hr ,1.80V/cell, 25°C/77°F)	
	1200.0 AH / 120.0A	(10hr,1.80V/cell, 25°C/77°F)	
	1054.5 AH / 210.9A	(5hr,1.75V/cell, 25°C/77°F)	
	-	(3hr,1.75V/cell, 25°C/77°F)	
	705.5 AH / 705.5A	(1hr,1.60V/cell, 25°C/77°F)	
Plate Type	Die-Cast		
Separator Type	Absorbed Glass Matt		
Max. Discharge Current	9600A (5s)		
Short Circuit Current	19200		
Internal Resistance	Approx 0.40mΩ		
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 360.0A. 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	-	-	-	-	880.7	698.9	580.1	361.8	280	230.6	196.3	-	139.8	116.2	62	27.5	13.5
1.80V/cell	-	-	-	-	945	735.3	616.3	382.2	293.2	240.9	204.6	-	144.2	120	64.2	27.9	13.8
1.75V/cell	-	-	-	-	1000.7	773.1	643	396.6	303.2	249.1	210.9	-	146.9	121.8	64.5	28.4	13.9
1.70V/cell	-	-	-	-	1050	802.3	665.6	408.6	311.2	254.5	214.5	-	149.2	123.1	65.3	28.7	14.1
1.65V/cell	-	-	-	-	1101.4	837.2	689.4	418.2	318.8	260	219.1	-	151.3	124.9	66.2	29.1	14.3
1.60V/cell	-	-	-	-	1138.9	859.4	705.5	427.2	324.4	263.6	222.3	-	153.3	126.6	66.9	29.4	14.4

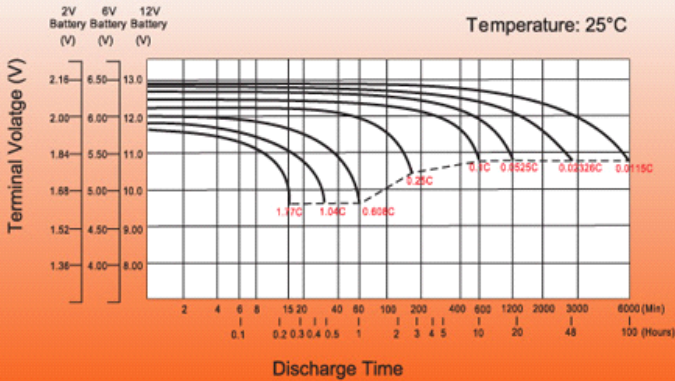
Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	100h
1.85V/cell	-	-	-	-	1683.1	1343.7	1122	703.7	547.2	452.2	386.8	-	277.4	231	123.4	54.8	27
1.80V/cell	-	-	-	-	1791.4	1404.4	1185.4	739.9	570.3	470.9	401.3	-	285.3	238.3	127.6	55.5	27.5
1.75V/cell	-	-	-	-	1882.6	1468	1231.4	764.7	588.2	485.2	412.2	-	290	241.6	128.1	56.4	27.7
1.70V/cell	-	-	-	-	1958.7	1512.7	1267.8	784.5	601.5	493.8	418.1	-	294.2	244	129.5	56.9	28.1

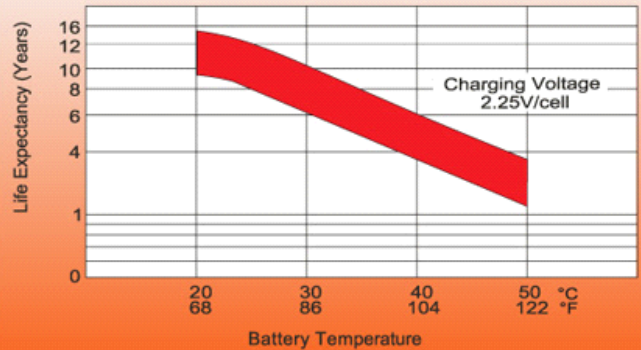
1.65V/cell	-	-	-	-	2039.4	1569.8	1305.8	799.6	613.4	502.7	425.5	-	297.7	247.2	131.2	57.6	28.4
1.60V/cell	-	-	-	-	2087.7	1596.3	1327.1	811.7	621	507.4	430	-	301	250.1	132.4	58.1	28.6

Dimensions

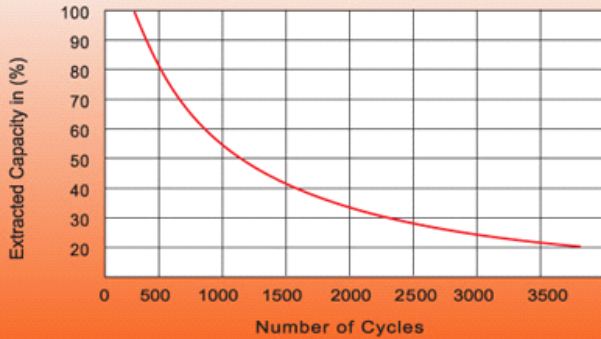
Discharge Characteristics



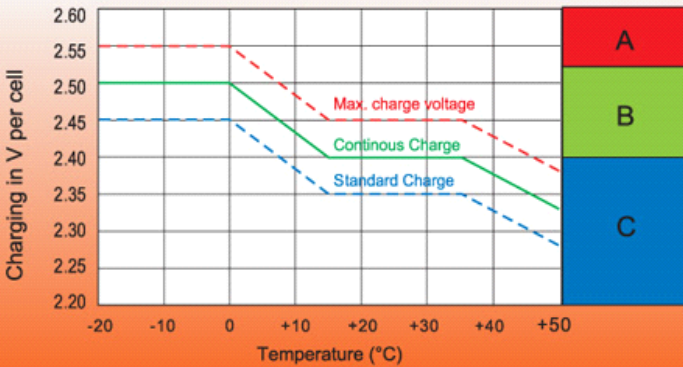
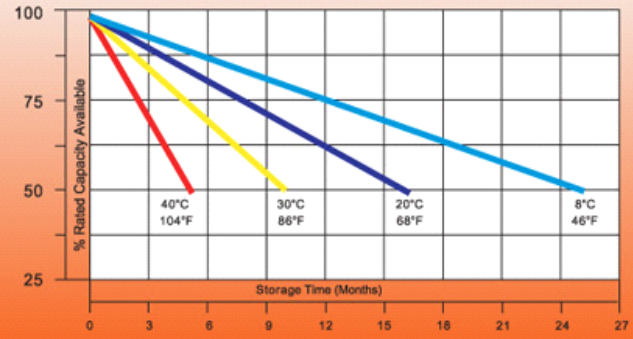
Effect of Temperature on Long Term Float Life



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.

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