

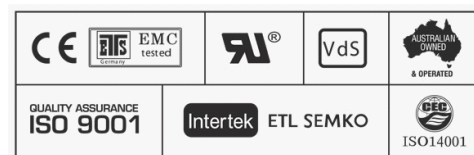
Specifications

Part Number	CBS2V550AH
Nominal Voltage	2 Volt
Nominal Capacity (20 HR)	550 AH
Dimension	Length 240 +/-2mm (9.43 inches) Width 175 +/-2mm (6.88 inches) Container Height 330 +/-2mm (12.97 inches) Total Height 350 +/-2mm (13.76 inches)
Approx Weight	29.7 kg (65.46lbs)
Terminal	T11
Terminal Torque	11 - 14.7 Nm
Container Material	ABS Fire Retardant
Rated Capacity	575.0 AH / 5.75A (100hr ,1.80V/cell, 25°C/77°F) 536.0 AH / 26.8A (20hr ,1.80V/cell, 25°C/77°F) 500.0 AH / 50.0A (10hr,1.80V/cell, 25°C/77°F) 439.5 AH / 87.9A (5hr,1.75V/cell, 25°C/77°F) - (3hr,1.75V/cell, 25°C/77°F) 294.0 AH / 294.0A (1hr,1.60V/cell, 25°C/77°F)
Plate Type	Die-Cast
Separator Type	Absorbed Glass Matt
Max. Discharge Current	4000A (5s)
Short Circuit Current	8000
Internal Resistance	Approx 0.6mΩ
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 150.0A. 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	-	-	-	-	367.0	291.2	241.7	150.8	116.7	96.1	81.8	-	58.3	48.4	25.8	11.5	5.63
1.80V/cell	-	-	-	-	393.7	306.4	256.8	159.3	122.2	100.4	85.2	-	60.1	50.0	26.8	11.6	5.75
1.75V/cell	-	-	-	-	417.0	322.1	267.9	165.3	126.3	103.8	87.9	-	61.2	50.8	26.9	11.8	5.80
1.70V/cell	-	-	-	-	437.5	334.3	277.3	170.3	129.7	106.1	89.4	-	62.2	51.3	27.2	12.0	5.88
1.65V/cell	-	-	-	-	458.9	348.8	287.2	174.3	132.8	108.3	91.3	-	63.1	52.1	27.6	12.1	5.95
1.60V/cell	-	-	-	-	474.6	358.1	294.0	178.0	135.2	109.8	92.6	-	63.9	52.8	27.9	12.2	6.01

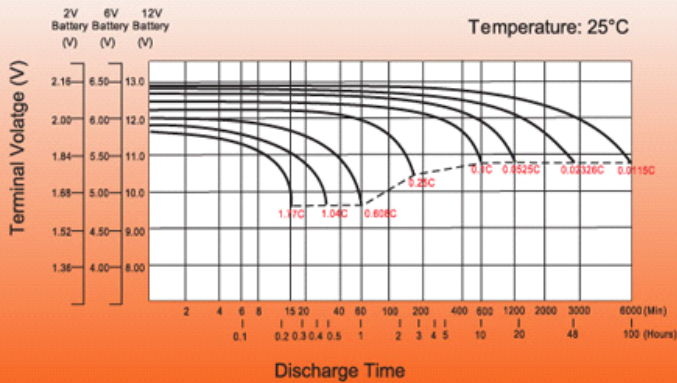
Constant Power Discharge (Amperes) at 25°C (77°F)

F.V Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	100h
1.85V/cell	-	-	-	-	701.3	559.9	467.5	293.2	228.0	188.4	161.2	-	115.6	96.3	51.4	22.8	11.3
1.80V/cell	-	-	-	-	746.4	585.2	493.9	308.3	237.6	196.2	167.2	-	118.9	99.3	53.2	23.1	11.5
1.75V/cell	-	-	-	-	784.4	611.7	513.1	318.6	245.1	202.2	171.8	-	120.8	100.7	53.4	23.5	11.6
1.70V/cell	-	-	-	-	816.1	630.3	528.3	326.9	250.6	205.7	174.2	-	122.6	101.7	54.0	23.7	11.7

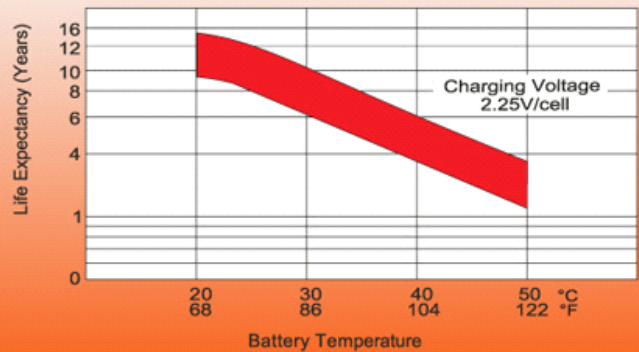
1.65V/cell	-	-	-	-	849.7	654.1	544.1	333.1	255.6	209.4	177.3	-	124	103	54.7	24	11.8
1.60V/cell	-	-	-	-	869.9	665.1	553	338.2	258.7	211.4	179.1	-	125.4	104.2	55.2	24.2	11.9

Dimensions

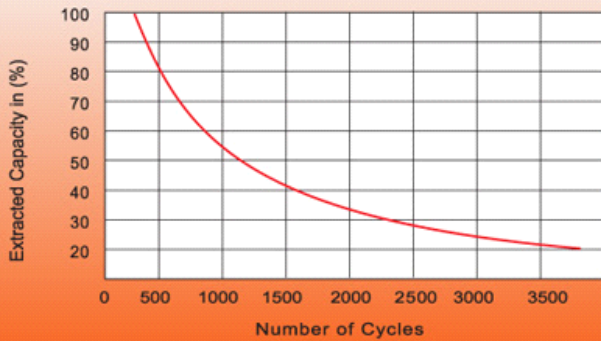
Discharge Characteristics



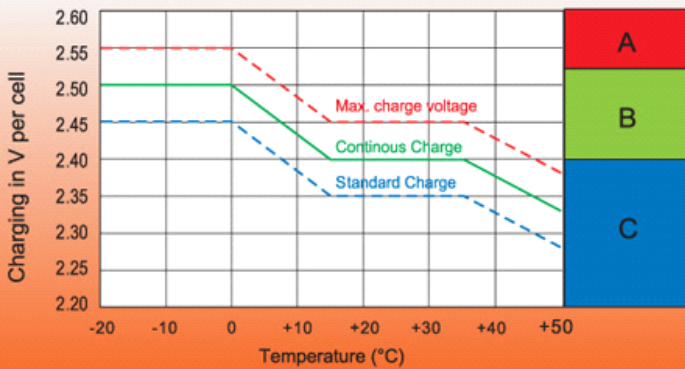
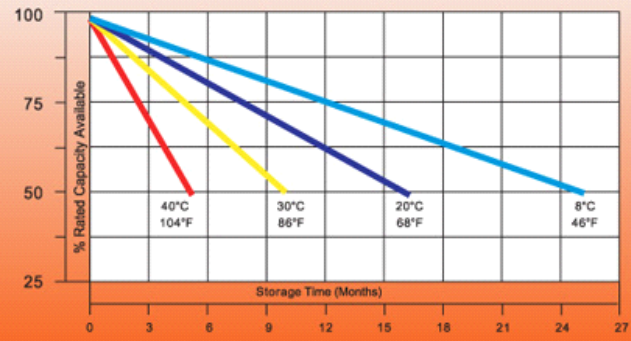
Effect of Temperature on Long Term Float Life



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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