FUSION
AGM BATTERIES

CBS Series - Solar Power

CBS2V460AH

Specifications

Nominal Voltage	2V	
Nominal Capacity (100HR)	460.0AH	
Dimensions	Length	210 +/-3mm (16.14 inches)
	Width	175 +/-2mm (6.89 inches)
	Container Height	330 +/-3mm (12.99 inches)
	Total Height (with Terminal)	350 +/-3mm (13.78 inches)
Approx Weight	Approx 24.9 kg (54.9lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	460.0AH/4.60A	(100hr ,1.80V/cell, 25°C/77°F)
	428.0AH/21.4A	(20hr,1.80V/cell, 25°C/77°F)
	400.0AH/40.0A	(10hr,1.75V/cell, 25°C/77°F)
	351.5AH/70.3A	(5hr,1.75V/cell, 25°C/77°F)
	235.2AH/235.2A	(1hr,1.60V/cell, 25°C/77°F)
Max. Discharge Current	3200A (5s)	
Internal Resistance	Approx 0.7mΩ	
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° +/-3°C (77° +/-5°F)	
Cycle Use	Initial Charging current less than 120.0A. Voltage 2.4V~2.5V at 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)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Fusion CBS Series batteries may 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

- Solar Farm Applications
- Communication Systems
- Green Energy Systems

Fusion 2 Volt CBS Solar Series batteries are a genuine AGM VRLA (Valve Regul Lead Acid) battery that is completely sealed, spill proof, leak proof and can be used upside down or on their side. The CBS Series is specifically designed for solar & green energy systems and can be used in confined or poorly ventilated spaces.

VdS | Intertek ETL SEMKO | AUSTRALIAN OWNED & OPERATED | ISO14001 | ISO9001 | CE EMC tested

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	293.6	233.0	193.4	120.6	93.3	76.9	65.4	46.6	38.7	20.7	9.16	4.50
1.80V/cell	315.0	245.1	205.4	127.4	97.7	80.3	68.2	48.1	40.0	21.4	9.30	4.60
1.75V/cell	333.6	257.7	214.3	132.2	101.1	83.0	70.3	49.0	40.6	21.5	9.46	4.64
1.70V/cell	350.0	267.4	221.9	136.2	103.7	84.8	71.5	49.7	41.0	21.8	9.57	4.70
1.65V/cell	367.1	279.1	229.8	139.4	106.3	86.7	73.0	50.4	41.6	22.1	9.69	4.76
1.60V/cell	379.6	286.5	235.2	142.4	108.1	87.9	74.1	51.1	42.2	22.3	9.80	4.81

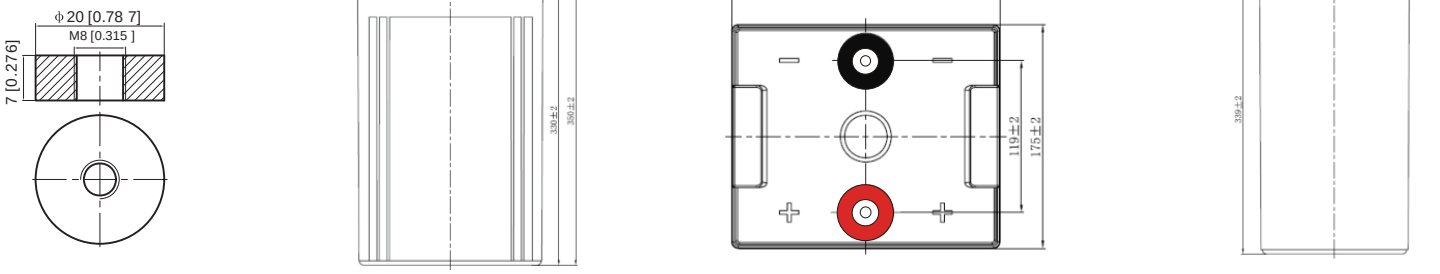
Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	561.0	447.9	374.0	234.6	182.4	150.7	128.9	92.5	77.0	41.1	18.3	9.00
1.80V/cell	597.1	468.1	395.1	246.6	190.1	157.0	133.8	95.1	79.4	42.5	18.5	9.18
1.75V/cell	627.5	489.3	410.5	254.9	196.1	161.7	137.4	96.7	80.5	42.7	18.8	9.25
1.70V/cell	652.9	504.2	422.6	261.5	200.5	164.6	139.4	98.1	81.3	43.2	19.0	9.36
1.65V/cell	679.8	523.3	435.3	266.5	204.5	167.6	141.8	99.2	82.4	43.7	19.2	9.45
1.60V/cell	695.9	532.1	442.4	270.6	207.0	169.1	143.3	100.3	83.4	44.1	19.4	9.54

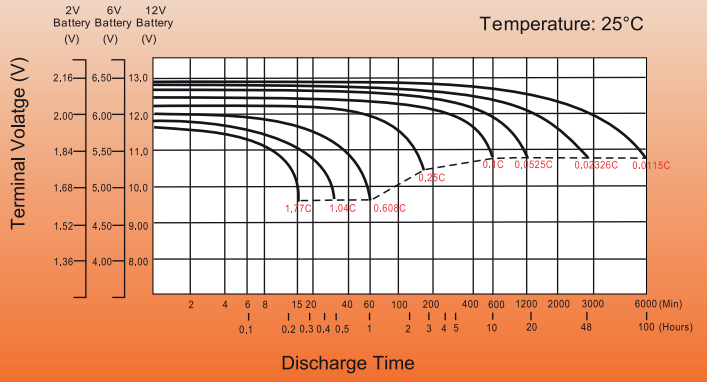
Dimensions

T11 Terminal

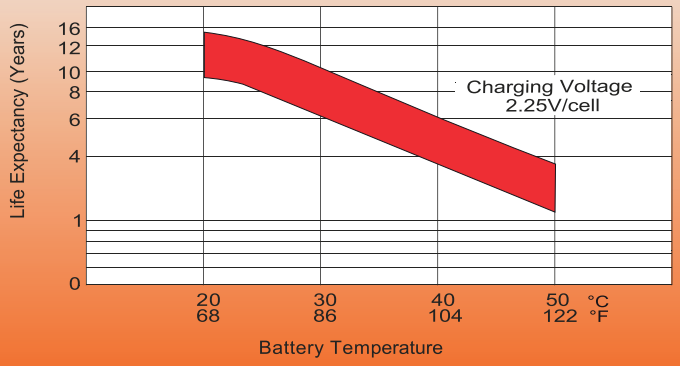
Unit: mm [inches]



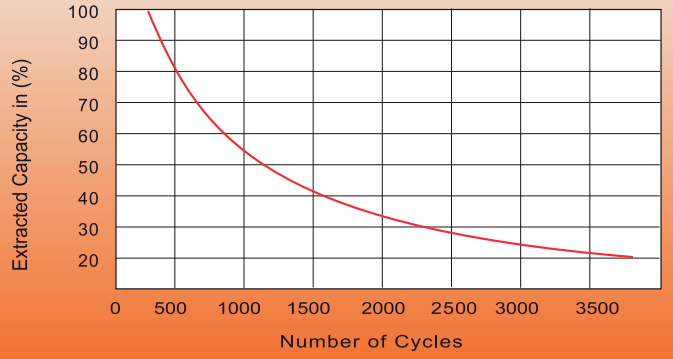
Discharge Characteristics



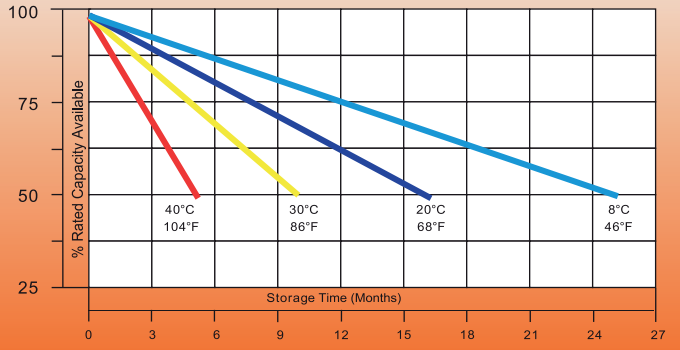
Effect of Temperature on Long Term Float Life



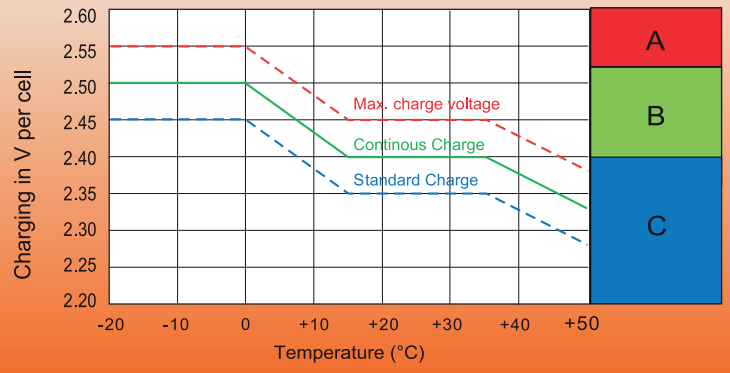
Cycle Life in Relation to Depth of Discharge



Self-Discharge at Different Temperatures



Charge Mode



A With switch regulator (two-step controller) charge on curve max. charge votage for max. 2 hrs/day then switch over to continous charge.

B Standard charge without switching.

C Boost charge (Equalizing charge with external generator) charge on curve continous charge for max. 5 hrs/month, then switch over to curve Standard charge.

Australian East Coast Distributor

Solar Battery Warehouse
Sugar Road
Maroochydore QLD 4558
Tel: 1300 883 847
www.solarbatterywarehouse.com.au

SOLAR BATTERY WAREHOUSE