

Powered by



MSV 300 ▶ 2V 300Ah

MSV 300 is a long service life battery up to 15 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



► Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	300Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 18.4 kg(40.57 lbs)
Maximum Discharge Current	1800A(5sec)
Internal Resistance	Approx. 0.40 mΩ
Operating Temperature Range	Discharge: -20°C~50°C (-4°F~122°F) Charge: 0°C~40°C (32°F~104°F) Storage: -20°C~40°C (-4°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	2.23±0.02/Cell at 25 °C (77°F) Temp. Coefficient ±3.3mV/°C (±1.8mV/°F)
Recommended Maximum Charging Current Limit	90A
Equalization / Cycle Use Charging Voltage	2.35V Temps coefficient ±3.3mV/°C (±1.8mV/°F)
Terminal	Pb-Ca-Sn Alloy(L / Recessed Terminal)
Container Material	The container and cover are made of flame retardant plastics which meet ABS(UL 94-V0/File E88637) specifications. The oxygen index level is higher than 28



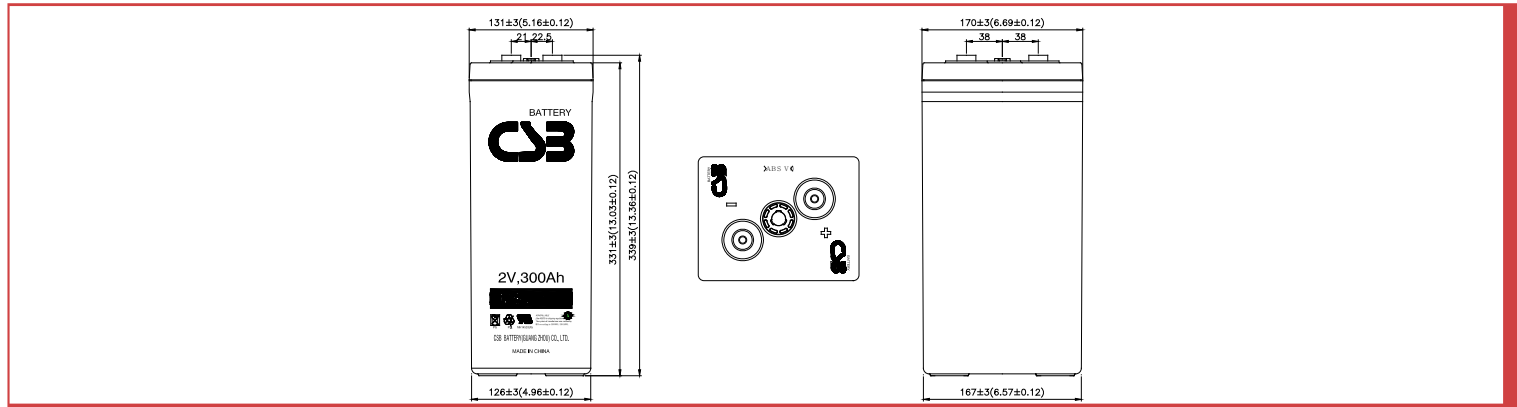
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
339±3 (13.37±0.12)	331±3 (13.03±0.12)	170±3 (6.69±0.12)	131±3 (5.16±0.12)



Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

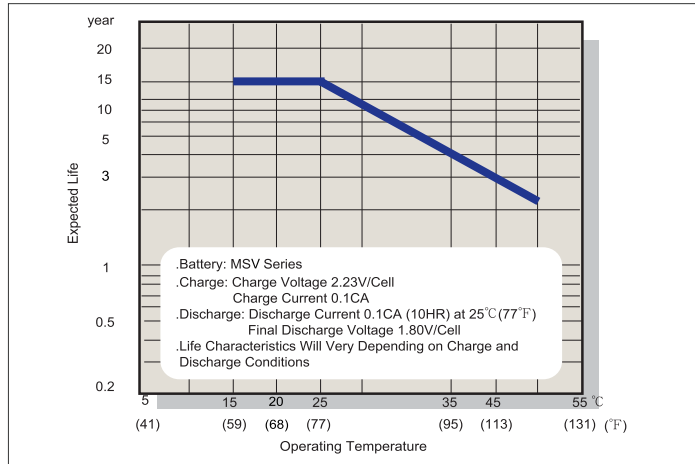
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	427	294	194	115	86.3	68.3	57.8	50.3	39.8	33.8
1.67V	389	280	185	111	81.8	66.0	55.5	48.0	39.0	33.0
1.70V	362	273	182	109	81.0	65.3	54.8	47.3	38.3	32.3
1.75V	316	252	168	103	75.8	61.7	51.8	45.0	36.8	30.8
1.80V	274	220	158	99.0	72.8	59.3	50.3	44.3	36.0	30.0
1.83V	238	195	146	93.0	69.8	56.3	48.0	42.0	34.2	29.3

Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

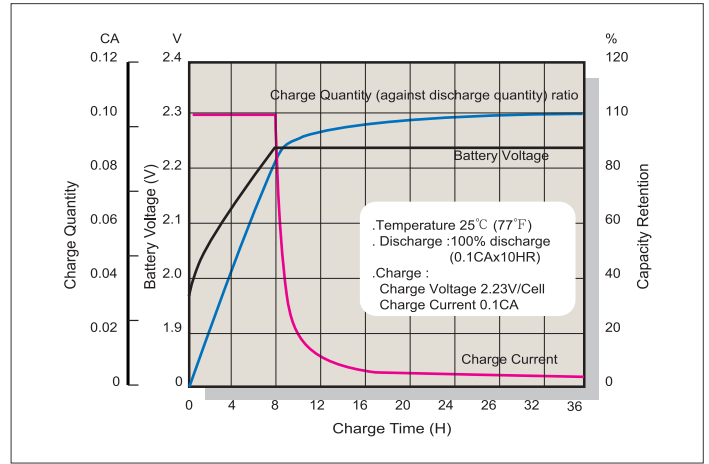
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	700	517	346	208	156	125	106	93.0	75.0	63.0
1.67V	640	494	345	206	154	124	105	92.3	74.3	62.3
1.70V	610	479	334	202	151	123	104	90.8	72.8	61.5
1.75V	552	447	312	193	145	118	100	87.0	71.3	60.0
1.80V	504	400	294	185	139	113	96.8	84.8	69.0	59.3
1.83V	429	347	271	174	133	108	92.3	81.0	66.0	57.0

Ratings are preliminary and subject to change.

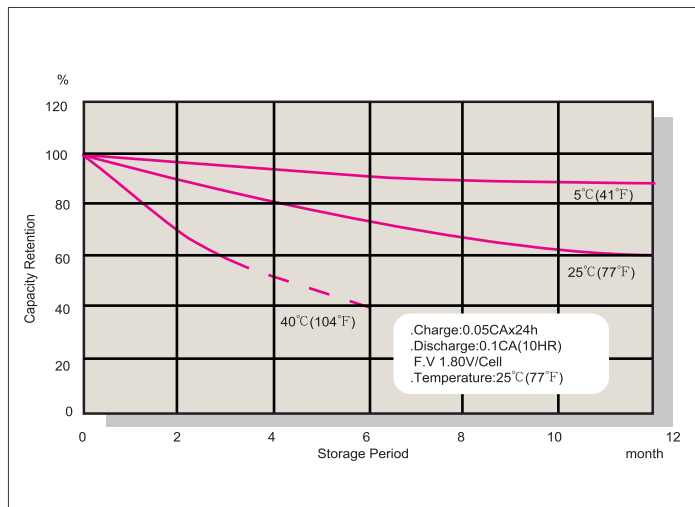
Expected Life V.S Operating Temperature



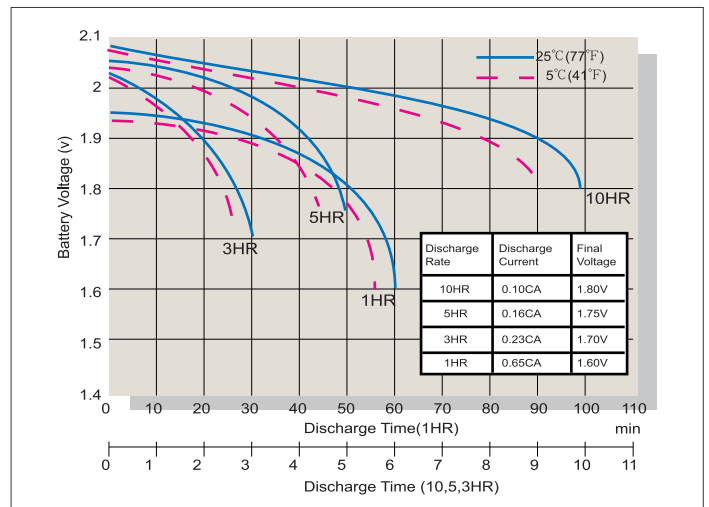
Typical Constant Voltage Charge Characteristics



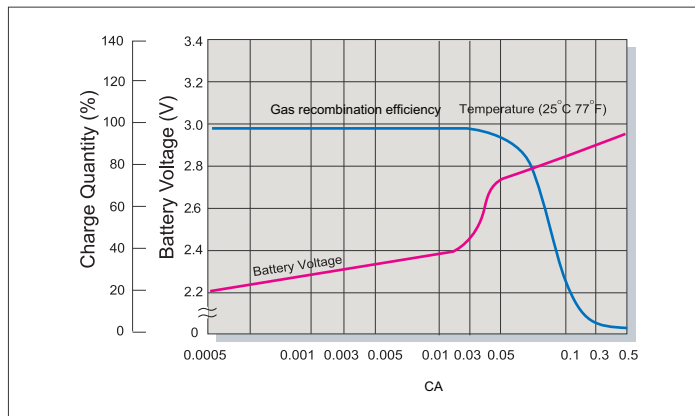
Capacity Retention Characteristics



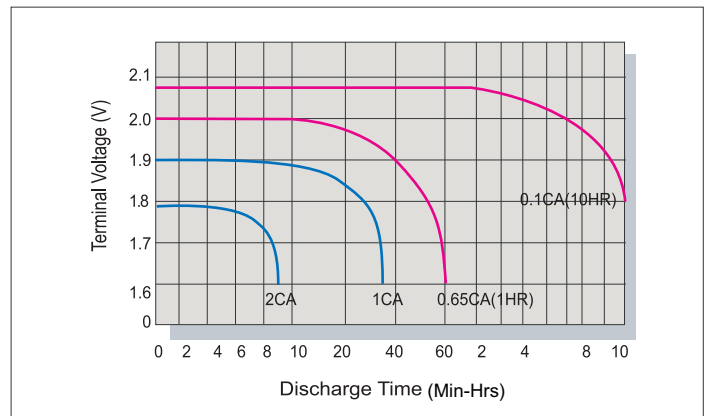
Discharge Characteristics



Oxygen Recombination Efficiency Chart



Terminal Voltage (V) and Discharge Time 25°C (77°F)



Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Standby	25°C (77°F)	2.23	2.21-2.25	0.3C

Discharge Current VS. Discharge Voltage

Discharge Current (A)	Final Discharge Voltage (V/Cell)
0.05C > A	1.90
0.15C > A ≥ 0.05C	1.80
0.20C > A ≥ 0.15C	1.75
0.40C > A ≥ 0.20C	1.70
A > 0.40C	1.60

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