

Powered by



MSV 800 ▶ 2V 800Ah

MSV 800 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	800Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 50.6 kg(111.55 lbs)
Maximum Discharge Current	4800A(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	240A
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



MH14533(N)



No.:041005117



NO.UM 1-12-0045

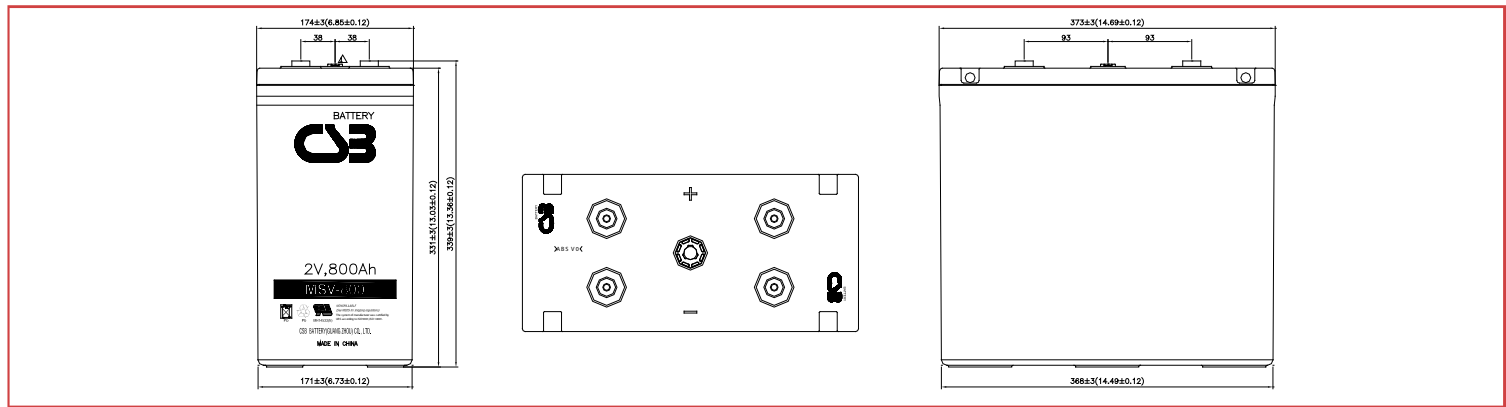
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

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 (13.35±0.12)	331±3 (13.03±0.12)	373±3 (14.69±0.12)	174±3 (7.1±0.12)



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

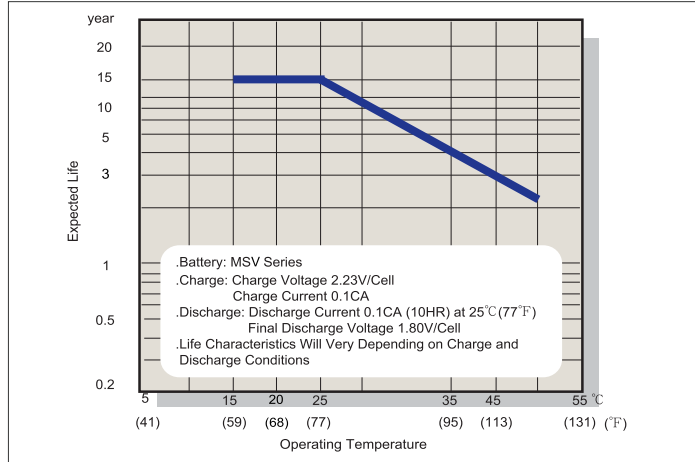
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	1138	783	518	306	230	182	154	134	106	90.0
1.67V	1038	746	494	296	218	176	148	128	104	88.0
1.70V	964	728	486	290	216	174	146	126	102	86.0
1.75V	842	671	448	274	202	164	138	120	98.0	82.0
1.80V	732	587	422	264	194	158	134	118	96.0	80.0
1.83V	636	519	390	248	186	150	128	112	91.2	78.0

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

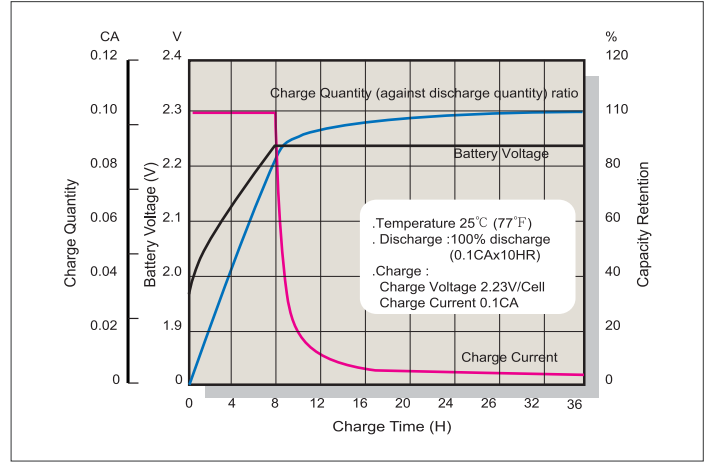
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	1865	1378	922	554	416	334	282	248	200	168
1.67V	1707	1318	920	550	410	330	280	246	198	166
1.70V	1627	1276	890	538	402	328	278	242	194	164
1.75V	1473	1191	832	514	386	314	266	232	190	160
1.80V	1343	1066	784	494	370	302	258	226	184	158
1.83V	1144	925	722	464	354	288	246	216	176	152

Ratings are preliminary and subject to change.

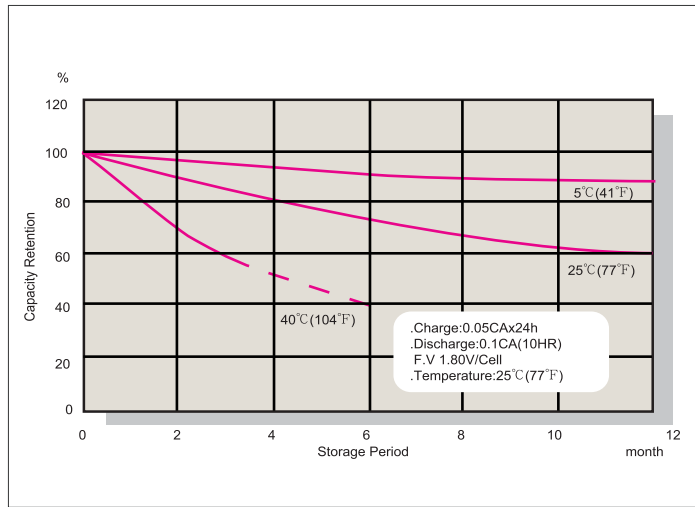
Expected Life V.S Operating Temperature



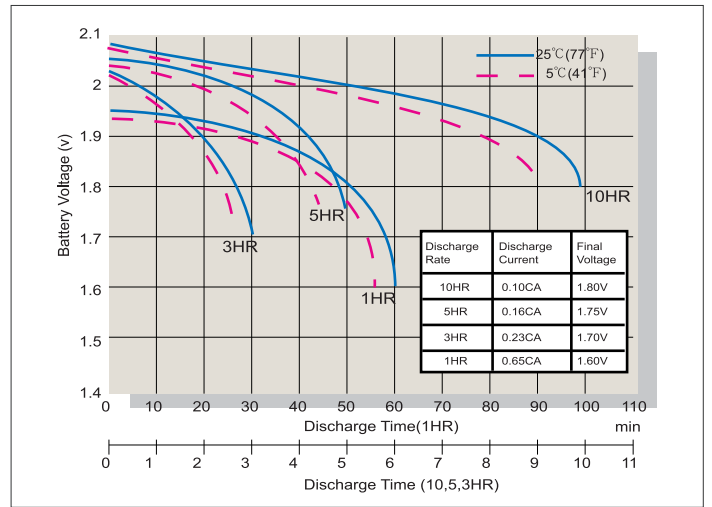
Typical Constant Voltage Charge Characteristics



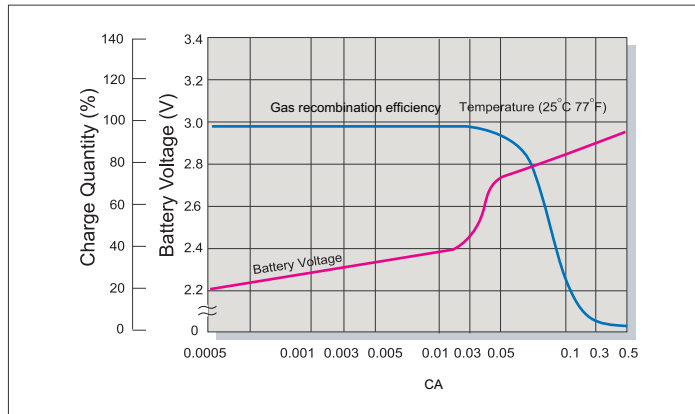
Capacity Retention Characteristics



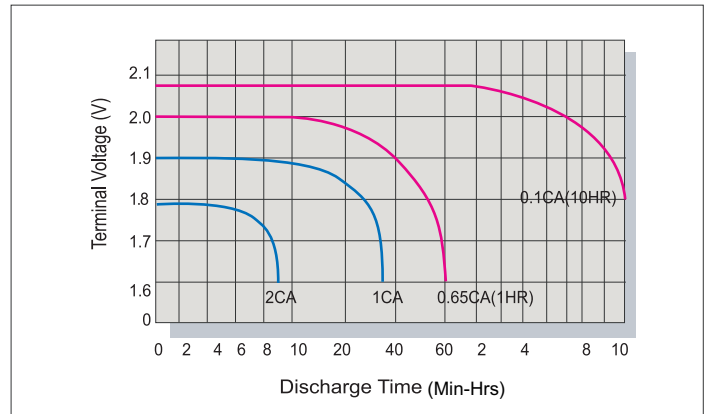
Discharge Characteristics



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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