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# MSJ 800 ▶ 2V 800Ah

MSJ 800 is a long service life battery up to 20 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



MH14533(N)



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

CSB is also certified by ISO 9001 and ISO 14001.

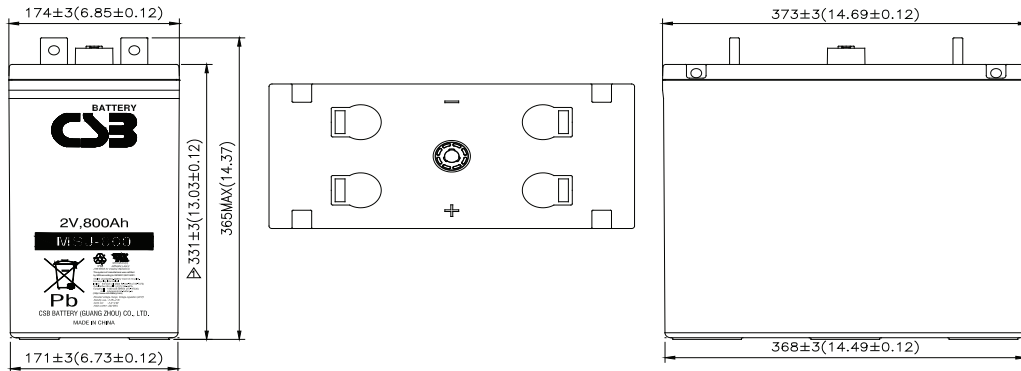
## ► Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	800Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 57 kg(125.66 lbs)
Maximum Discharge Current	4800A(5sec)
Internal Resistance	Approx. 0.78 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) specifications. The oxygen index level is higher than 28

## ► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
339±3 (13.36±0.12)	331±3 (13.03±0.12)	373±3 (14.69±0.12)	174±3 (6.85±0.12)



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

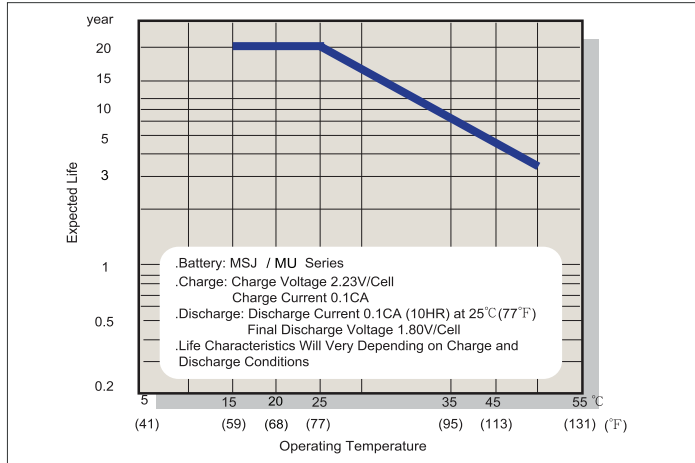
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	1270	843	517	307	229	182	154	133	107	90.0
1.67V	1208	810	494	296	219	176	147	130	102	86.0
1.70V	1126	763	485	291	214	174	146	126	101	85.0
1.75V	1000	678	446	275	203	165	139	120	98.0	83.0
1.80V	861	626	421	262	195	163	134	118	96.0	80.0
1.83V	728	563	389	248	186	150	128	112	91.0	77.0

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

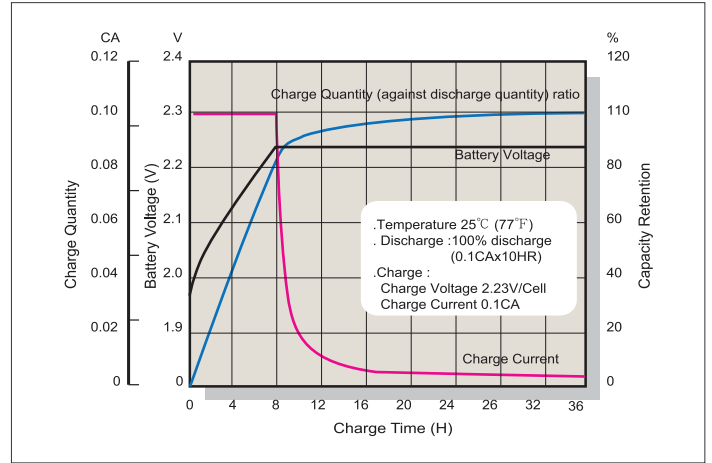
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	2224	1499	923	555	416	334	283	251	200	170
1.67V	2203	1491	920	547	414	331	280	248	198	168
1.70V	2027	1387	891	539	402	326	277	243	195	166
1.75V	1822	1250	832	515	387	315	266	232	190	162
1.80V	1568	1152	784	493	371	306	258	227	184	157
1.83V	1326	1038	723	464	354	282	246	214	176	152

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

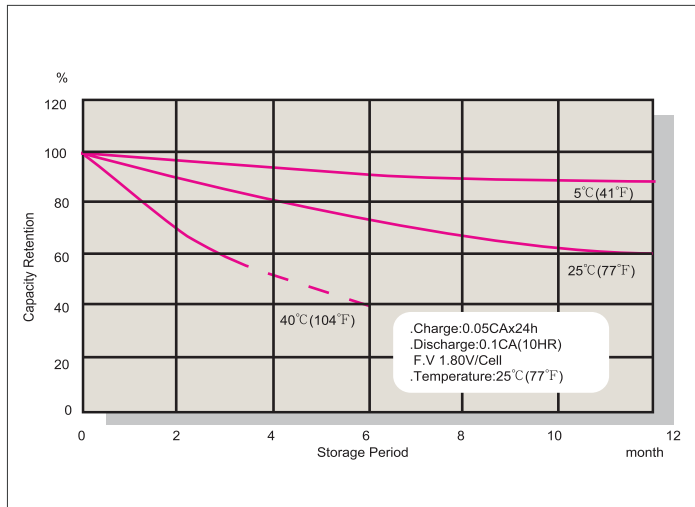
### Expected Life V.S Operating Temperature



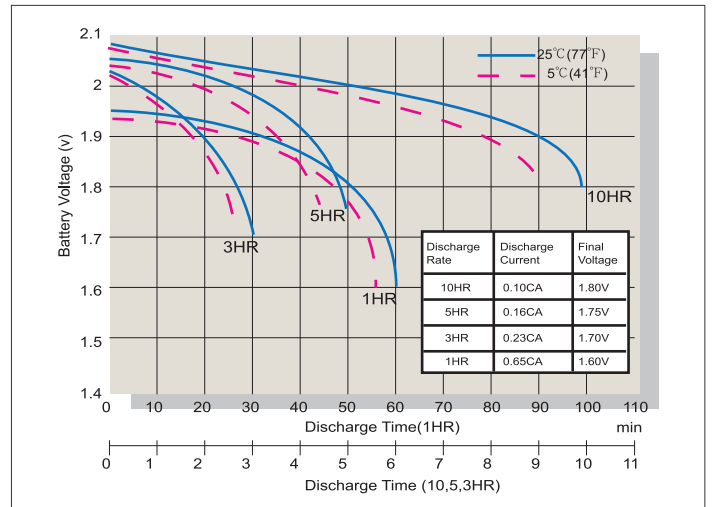
### Typical Constant Voltage Charge Characteristics



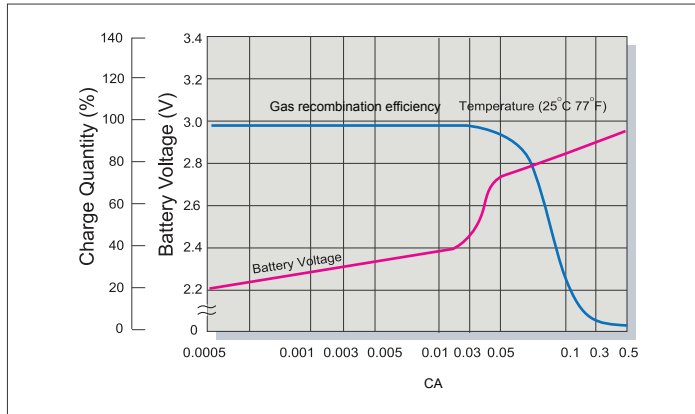
### Capacity Retention Characteristics



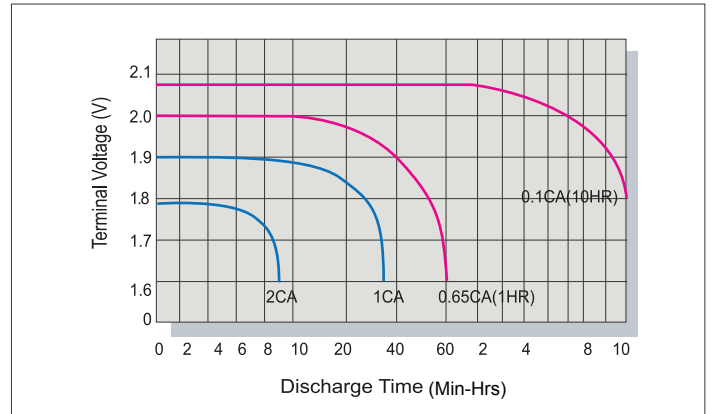
### Discharge Characteristics



### 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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