

MSJ 800

2V 800Ah

MSJ-800 is a Long service life battery with 15~20 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. 53.7 kg (118.4 lbs)
Maximum Discharge Current	4800A(5sec)
Internal Resistance	Approx. 0.37 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	2.23±0.02/Cell AT25°C (77°F) Temp. Coefficient-3.3mV/°C (-1.8mV/°F)
Recommended Maximum Charging Current Limit	240A
Equalization and Cycle Service	2.35V Temps coefficient -3.3mV/°C (-1.8mV/°F)
Terminal	Pb-Ca-Sn Alloy
Container Material	The container and cover are made of flame retardant plastics which meet UL-94V-0 specifications. The oxygen index level is higher than 28.



MH14533(N)



ISO 9001
No. 041005117

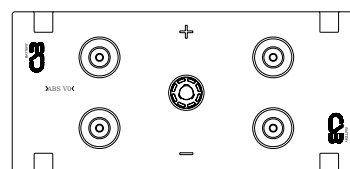
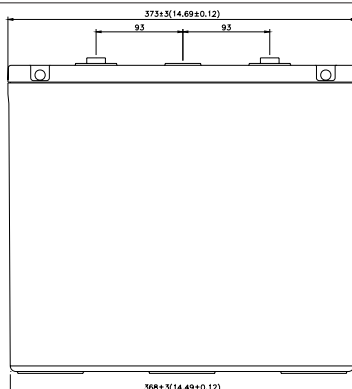
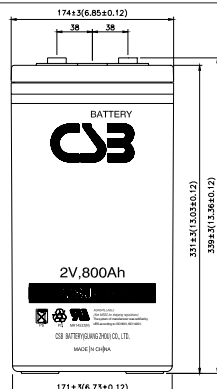


ISO 14001
NO. UM 1-12-0045

CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

Dimensions

Unit:(mm)



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

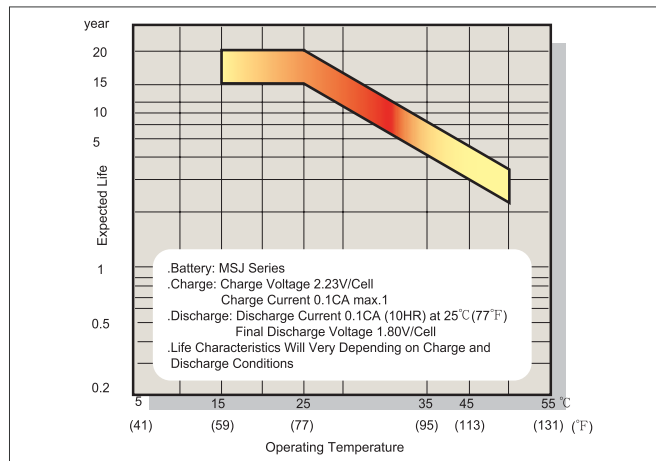
F.V/Time	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	517.00	307.00	229.00	182.00	154.00	133.00	107.00	90.00
1.65V	494.00	296.00	219.00	176.00	147.00	130.00	102.00	86.00
1.70V	485.00	291.00	214.00	174.00	146.00	126.00	101.00	85.00
1.75V	446.00	275.00	203.00	165.00	139.00	120.00	98.00	83.00
1.80V	421.00	262.00	195.00	163.00	134.00	118.00	96.00	80.00
1.83V	389.00	248.00	186.00	150.00	128.00	112.00	91.00	77.00

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

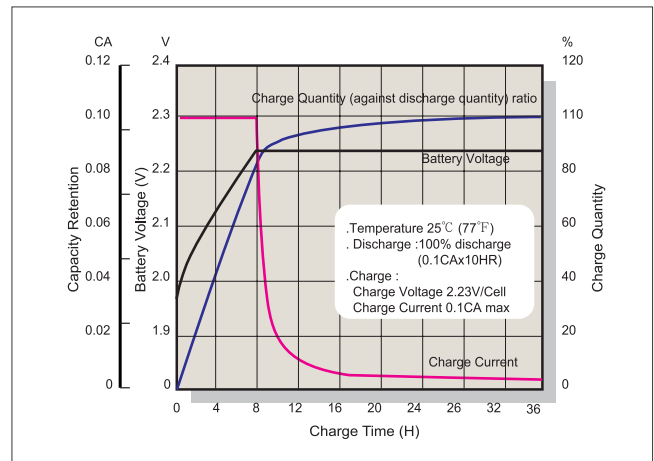
F.V/Time	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	923.00	555.00	416.00	334.00	283.00	251.00	200.00	170.00
1.65V	920.00	547.00	414.00	331.00	280.00	248.00	198.00	168.00
1.70V	891.00	539.00	402.00	326.00	277.00	243.00	195.00	166.00
1.75V	832.00	515.00	387.00	315.00	266.00	232.00	190.00	162.00
1.80V	784.00	493.00	371.00	306.00	258.00	227.00	184.00	157.00
1.83V	723.00	464.00	354.00	282.00	246.00	214.00	176.00	152.00

- All mentioned values are average values.
- Cycle Information : 300~400 cycles@DOD80%, 600~700 cycles@DOD50%, 900~1200 cycles@DOD30%

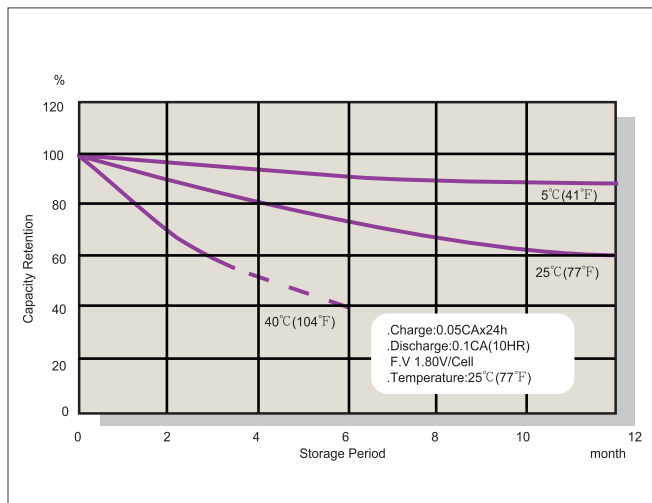
Expected Life V.S Operating Temperature



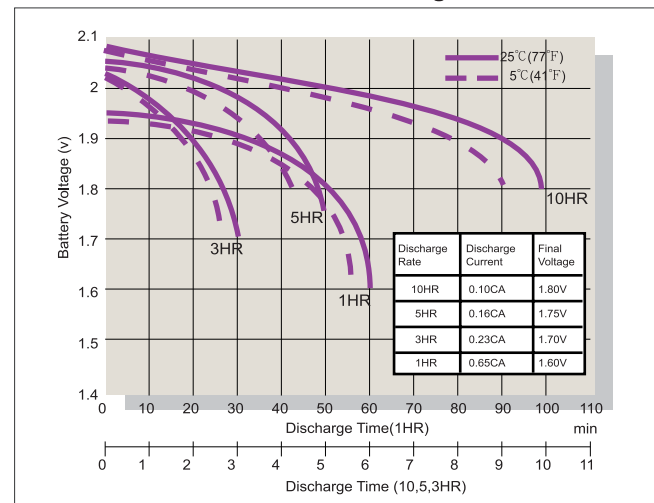
Typical Constant Voltage Charge Characteristics



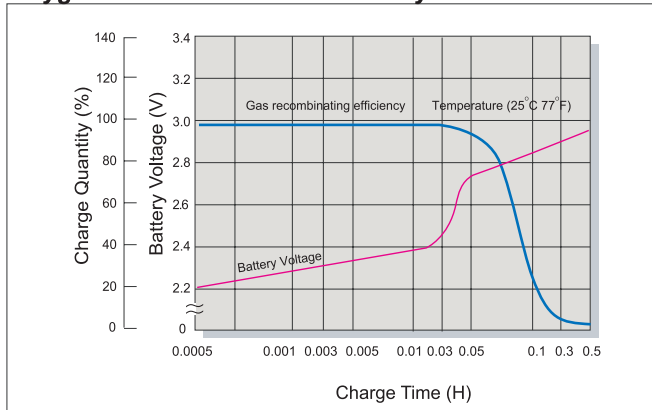
Capacity Retention Characteristics



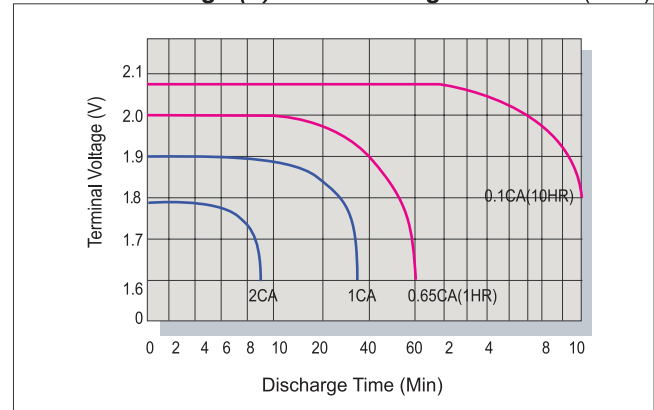
Discharge Characteristics



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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