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MSJ 800 ▶ 2V 810 Ah

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.



CSB-manufactured **VRLA** (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

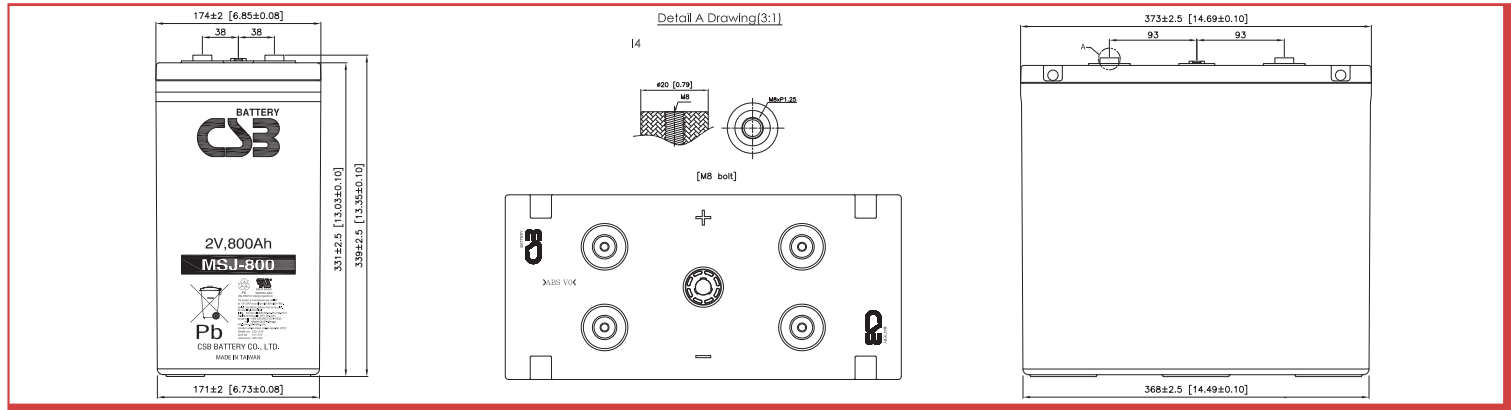
CSB is also certified by ISO 9001 and ISO 14001.

► Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	810Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 56.7 kg (125.0 lbs)
Maximum Discharge Current	4800A(5sec)
Internal Resistance	Approx. 0.25 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 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±2.5 (13.35±0.10)	331±2.5 (13.03±0.10)	373±2.5 (14.69±0.10)	174±2 (6.85±0.08)



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

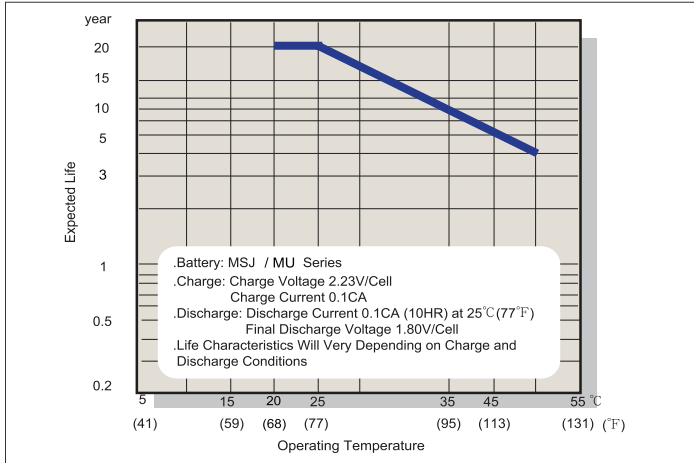
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	1408	993	608	348.1	249.5	192.9	157.4	133.2	104.1	86.2
1.67V	1262	943	592	344.0	246.9	190.9	155.8	132.0	103.3	85.5
1.70V	1186	912	581	341.1	245.2	189.6	154.8	131.2	102.8	85.1
1.75V	1066	830	553	333.3	240.9	186.2	152.2	129.2	101.4	84.0
1.80V	912	735	510	318.8	232.3	179.8	147.4	125.6	98.6	81.8
1.83V	806	674	477	305.0	223.2	173.4	142.6	121.9	95.8	79.6

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

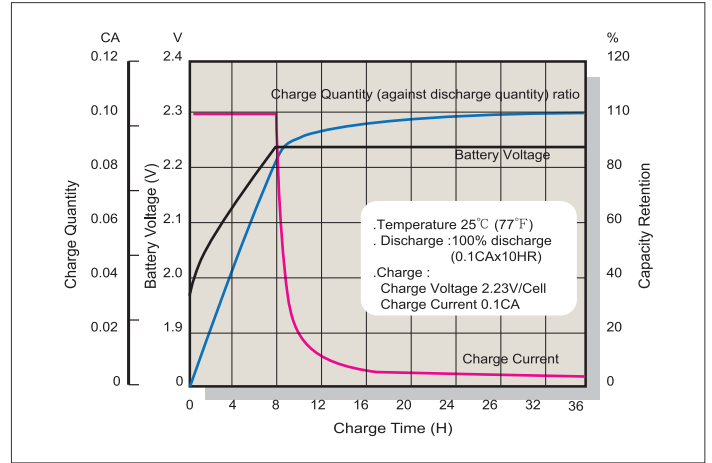
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	2466	1800	1105	664.6	476.2	375.8	312.2	267.6	204.9	160.4
1.67V	2292	1732	1084	658.1	472.3	373.3	310.3	266.0	203.4	159.3
1.70V	2201	1687	1068	653.6	469.6	371.5	308.9	264.9	202.4	158.5
1.75V	2012	1577	1024	640.2	462.0	366.5	305.1	261.7	199.4	156.4
1.80V	1804	1424	955	614.9	447.3	356.9	297.4	255.3	193.4	151.9
1.83V	1626	1328	901	590.3	432.5	346.9	289.3	248.7	187.4	147.2

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

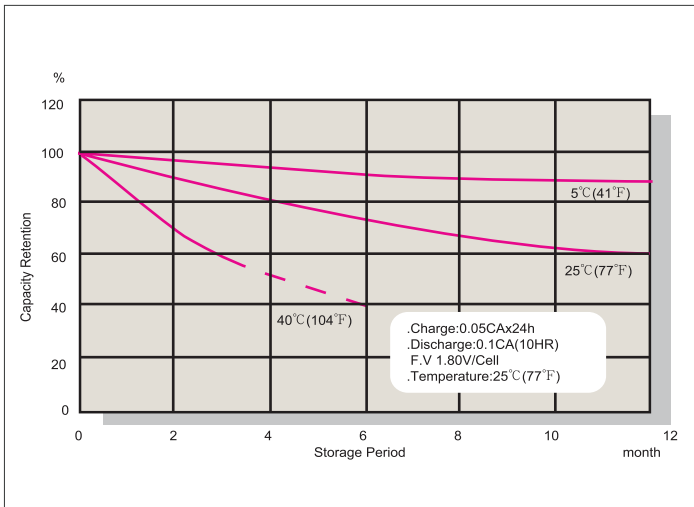
Expected Life V.S Operating Temperature



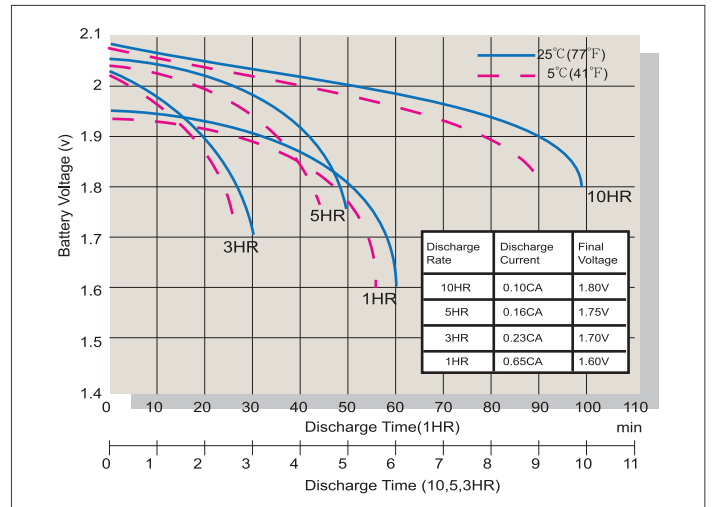
Typical Constant Voltage Charge Characteristics



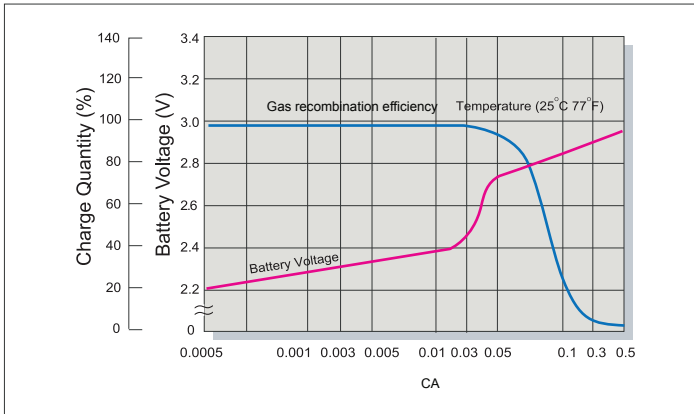
Capacity Retention Characteristics



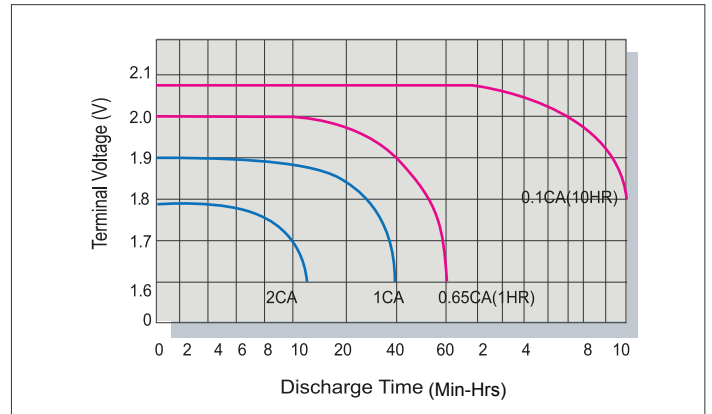
Discharge Characteristics



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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