



# MSJ 260

## 2V 260Ah

MSJ-260 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

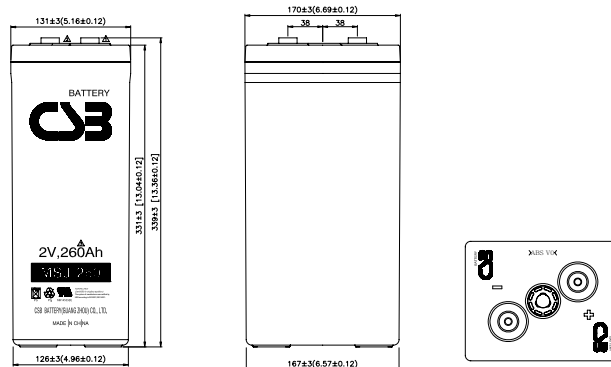
Cells Per Unit	1
Voltage Per Unit	2
Capacity	260Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 17.5kg(38.6 lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 0.36m Ω
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15~40°C (5°F~104°F) Storage: -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	78A
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.



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)

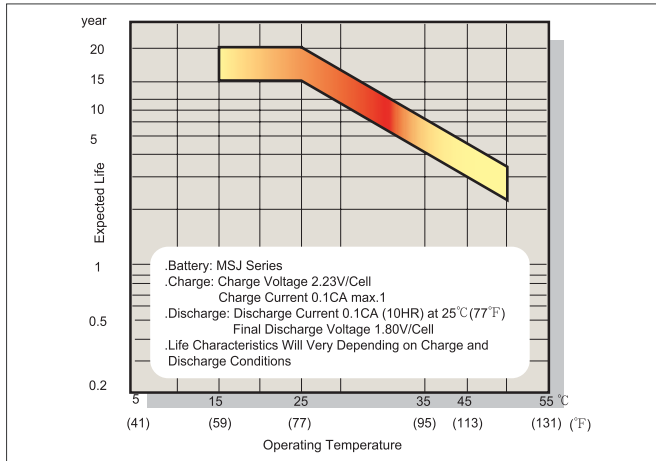
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	397	263	162	96.0	72.0	57.0	48.0	42.0	33.0	28.0
1.65V	378	253	154	93.0	68.0	55.0	46.0	40.0	33.0	27.0
1.70V	353	238	152	91.0	68.0	54.0	46.0	40.0	32.0	27.0
1.75V	313	212	140	86.0	63.0	52.0	43.0	38.0	31.0	26.0
1.80V	269	195	132	83.0	61.0	51.0	42.0	37.0	30.0	25.0
1.83V	228	176	122	78.0	58.0	47.0	40.0	35.0	28.0	24.0

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

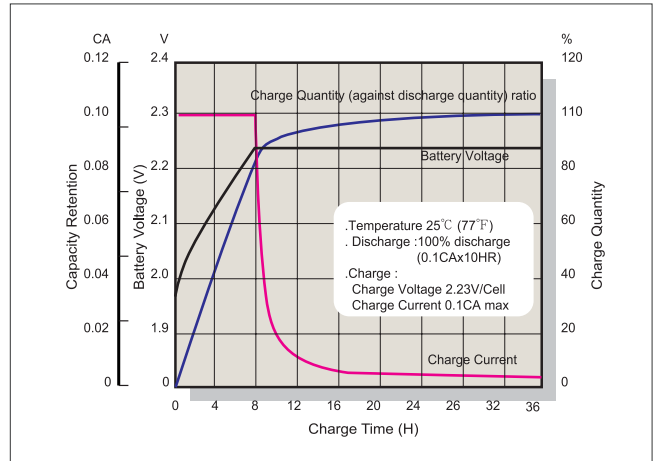
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	695	468	288	173	130	104	88.0	78.0	63.0	53.0
1.65V	688	466	288	172	128	103	88.0	77.0	62.0	52.0
1.70V	633	433	278	168	126	103	87.0	76.0	61.0	52.0
1.75V	570	391	260	161	121	98.0	83.0	73.0	59.0	50.0
1.80V	490	360	245	154	116	96.0	81.0	71.0	58.0	49.0
1.83V	414	324	226	145	111	88.0	77.0	68.0	55.0	48.0

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

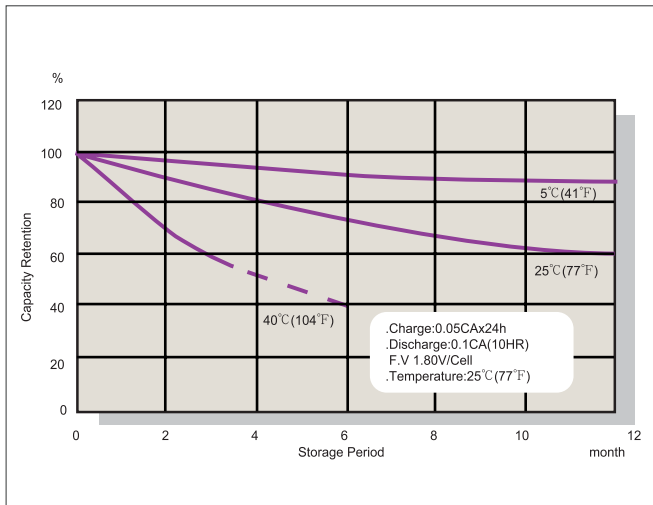
### Expected Life V.S Operating Temperature



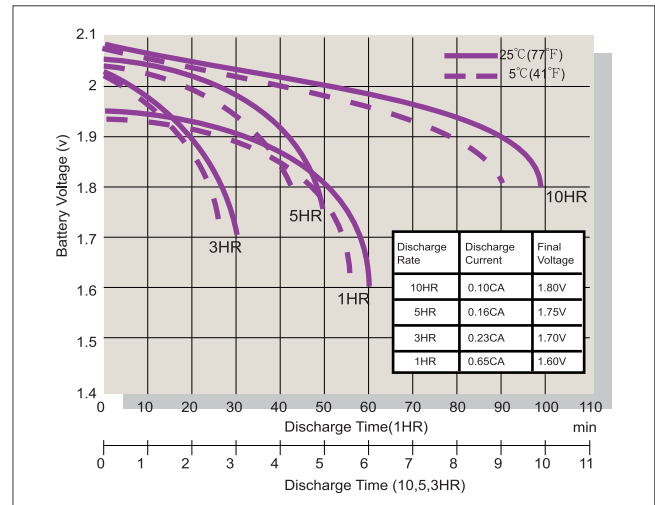
### Typical Constant Voltage Charge Characteristics



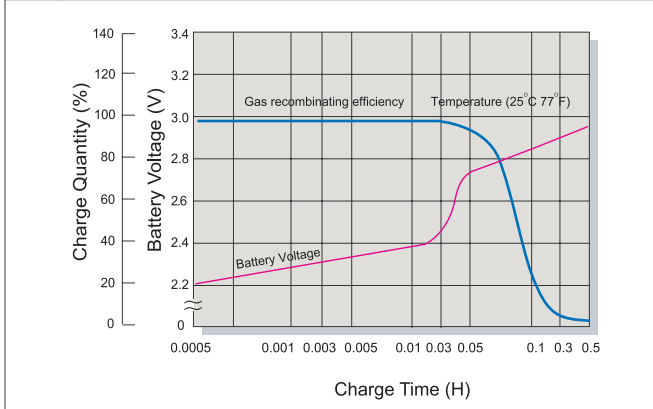
### Capacity Retention Characteristics



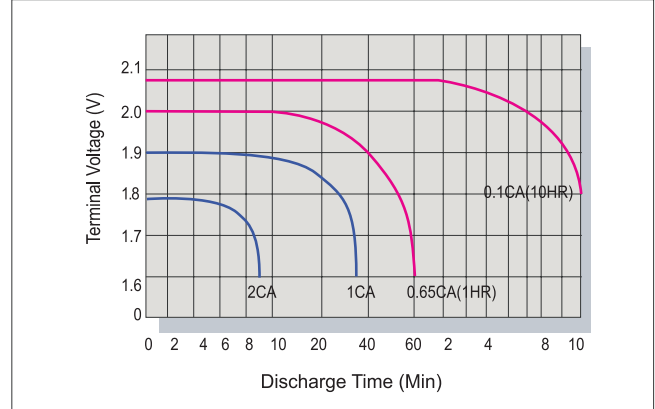
### Discharge Characteristics



### 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
0.40 C > A ≥ 0.20C	1.70
A > 0.40 C	1.60

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