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# MSJ 260 ▶ 2V 260Ah

MSJ 260 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.

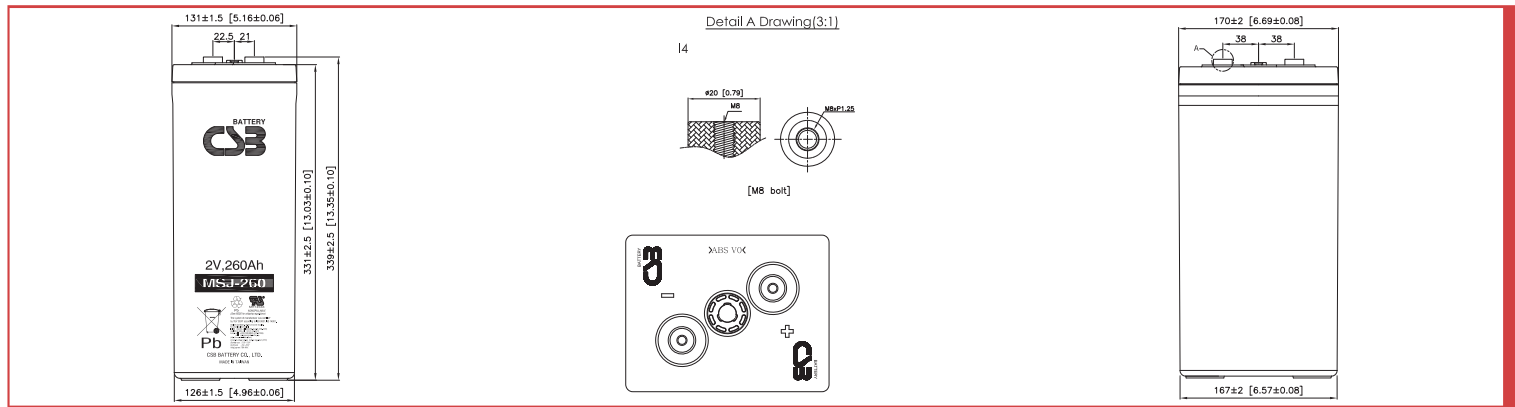
## ► Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	260Ah @ 10hr-rate to 1.80V per cell @25 °C (77°F)
Weight	Approx. 18.7 kg(41.3 lbs)
Maximum Discharge Current	1560A(5sec)
Internal Resistance	Approx. 0.36 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	78A
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)	170±2 (6.69±0.08)	131±1.5 (5.16±0.06)



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

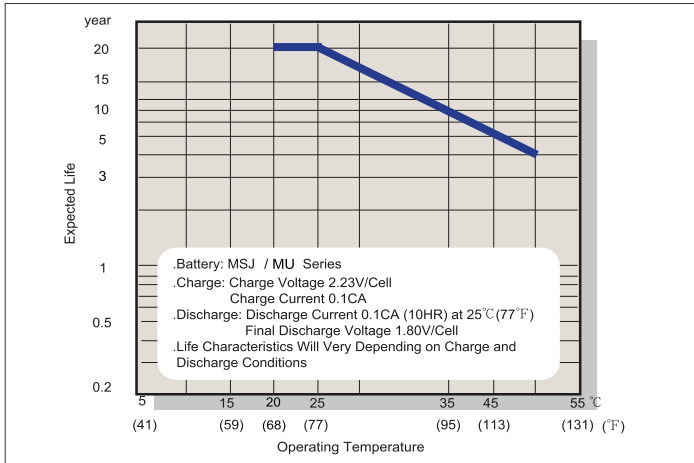
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	463	310	190	108.8	78.0	60.3	49.2	41.6	32.5	26.9
1.67V	415	295	185	107.5	77.2	59.7	48.7	41.2	32.3	26.7
1.70V	390	285	182	106.6	76.6	59.2	48.4	41.0	32.1	26.6
1.75V	351	259	173	104.2	75.3	58.2	47.6	40.4	31.7	26.2
1.80V	300	230	159	99.6	72.6	56.2	46.1	39.2	30.8	26.0
1.83V	265	211	149	95.3	69.8	54.2	44.6	38.1	30.0	24.9

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

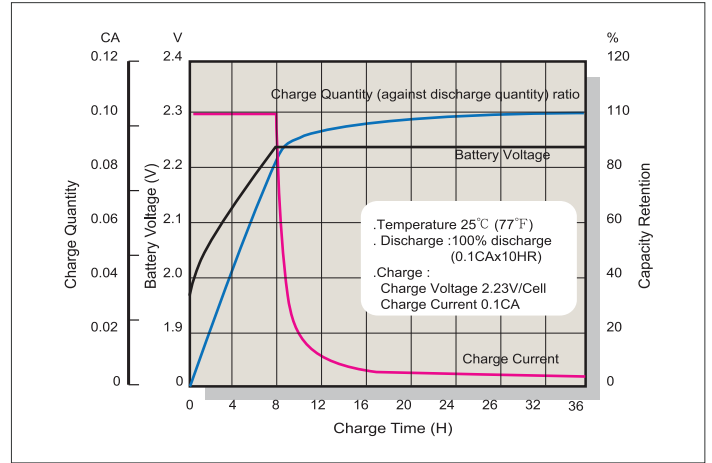
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	811	563	345	207.7	148.8	117.4	97.6	83.6	64.0	50.1
1.67V	754	541	339	205.7	147.6	116.6	97.0	83.1	63.6	49.8
1.70V	724	527	334	204.2	146.8	116.1	96.5	82.8	63.3	49.5
1.75V	662	493	320	200.1	144.4	114.5	95.3	81.8	62.3	48.9
1.80V	594	445	299	192.2	139.8	111.5	92.9	79.8	60.5	47.5
1.83V	535	415	282	184.5	135.2	108.4	90.4	77.7	58.6	46.0

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.

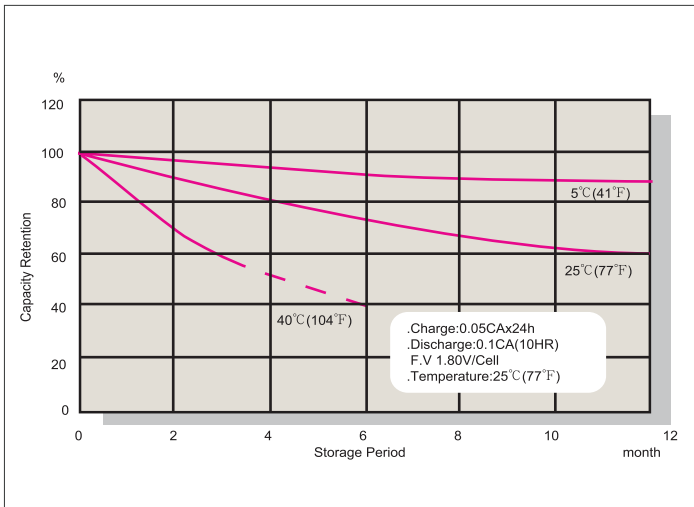
### Expected Life V.S Operating Temperature



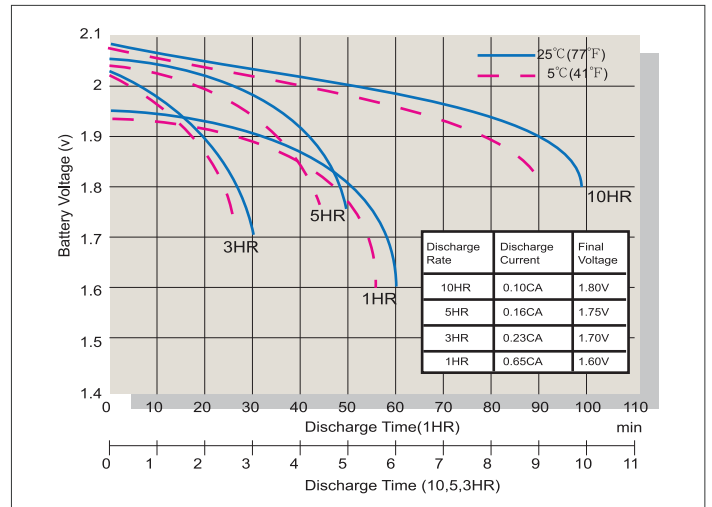
### Typical Constant Voltage Charge Characteristics



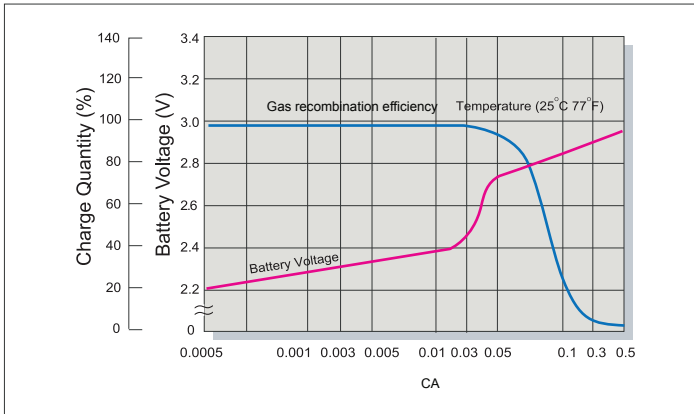
### Capacity Retention Characteristics



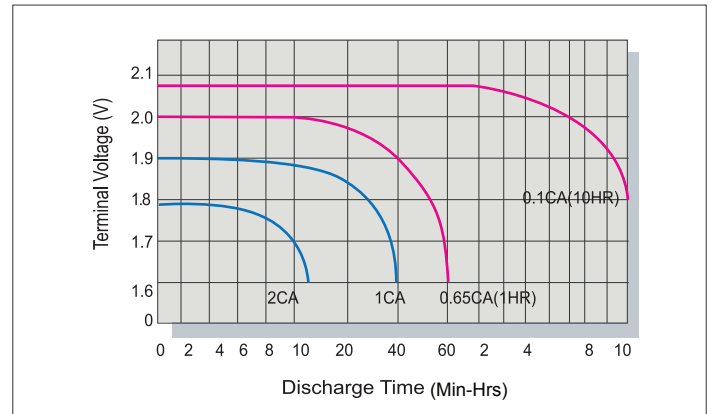
### Discharge Characteristics



### 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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