



MSJ series MSJ-150



Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

General Design for Standby Power Applications

【Design Life】

Up to 20 Years in Standby Service at 25°C
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)
Discharge : -15°C ~ 50°C (5°F~122°F)
Charge: -15°C ~ 40°C (5°F~104°F)
Storage: -15°C ~ 40°C (5°F~104°F)

【Float Charging Voltage】

2.21 ~ 2.25 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

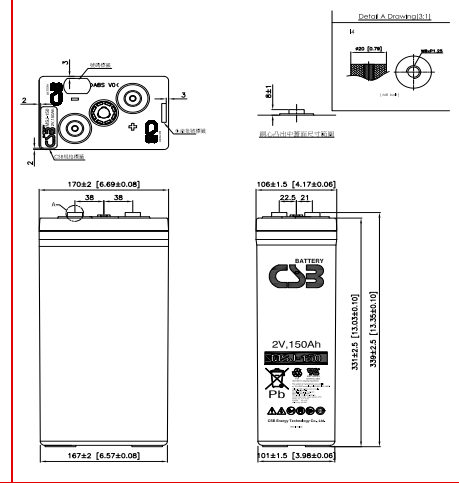
2.35 VDC/Unit at 25°C (77°F)

【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Specification

Nominal Voltage	2V (single cell per unit)		
Nominal Capacity	150 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 12.80 Kg (28.81 lbs)		
Maximum Discharge Current	900 A (5sec)		
Internal Resistance	Approx. 0.54 mΩ		
Short Circuit Current	2848A		
Maximum Charge Current	45 A		
Terminal types	I4 thread copper alloy terminal to accept M8 bolt		
Terminal tightening torque	126±25 Kgf·cm / 109±22 Lbf·in / 12.3±2.5 N·m		
Container Material	Flame Retardant Polypropylene (UL 94-V0)		
Dimensions	Depth (D)	170.0±2.0 mm	6.69±0.08 inch
	Width (W)	106.0±1.5 mm	4.17±0.06 inch
	Container height (h)	331.0±2.5 mm	13.03±0.10 inch
	Overall Height (H)	339.0±2.5 mm	13.15±0.10 inch



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

F.V/Time	15MIN	30MIN	60MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	286	192	117	67.2	56.0	48.2	30.4	25.7	20.1	16.6	8.32	6.93
1.67V	256	182	114	66.4	55.4	47.7	30.1	25.5	19.9	16.5	8.26	6.88
1.70V	241	176	112	65.9	54.9	47.4	29.9	25.3	19.8	16.4	8.22	6.85
1.75V	217	160	107	64.4	53.8	46.5	29.4	24.9	19.6	16.2	8.11	6.76
1.80V	185	142	98.4	61.6	51.7	44.9	28.5	24.3	19.1	15.8	7.90	6.58
1.83V	164	130	92.1	58.9	49.6	43.1	27.5	23.5	18.5	15.4	7.68	6.40

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

F.V/Time	15MIN	30MIN	60MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	501	348	213	128	107	92.0	60.3	51.7	39.6	31.0	15.5	12.9
1.67V	466	334	209	127	106	91.2	59.9	51.4	39.3	30.8	15.4	12.8
1.70V	448	326	206	126	105	90.7	59.7	51.2	39.1	30.6	15.3	12.7
1.75V	409	305	198	124	103	89.2	58.9	50.5	38.5	30.2	15.1	12.6
1.80V	367	275	185	119	100	86.4	57.4	49.3	37.4	29.3	14.7	12.2
1.83V	331	256	174	114	96.1	83.5	55.9	48.0	36.2	28.4	14.2	11.8

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

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Recognized under UL 1989,
and certified by ISO 9001, 14001, 45001, 50001.



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