



Maintenance-Free Rechargeable Sealed Lead-Acid Battery



MSB-500 (2V, 500AH)

FEATURES

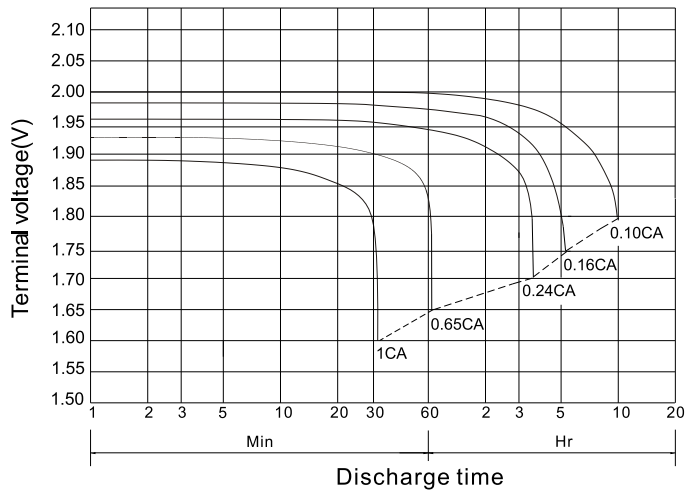
- Sealed construction, no electrolyte leakage or spill
- Maintenance free operation, no need to fill in water
- Expected life span of 15 years in float service at 20 degree C
- High performance alloy to secure corrosion-proof feature
- Unique electrolyte system achieves maximum service life
- Low self-discharge rate, lower than 3% capacity loss per month
- Special paste formula promotes the good charging acceptance

PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	2 V
Nominal Capacity(AH)	
10 hour rate F.V.(1.80V/cell)	500A.H.
5 hour rate F.V.(1.75V/cell)	400A.H.
1 hour rate F.V.(1.60V/cell)	325A.H.
Approximate Weight.....	36kg(79.38lbs.)
Terminal	
Standard.....	Type B6
Internal Resistance (Fully Charged Battery).....	<1mΩ
Maximum Discharge Current For 5 sec.(A).....	2200A
Maximum Charge Current(A)	100A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Vibration test:	
Frequency: 16.7 HZ	
Amplitude: 4mm	
Vibrate the battery horizontally or vertically for 60 minutes.The battery have no abnormality.	
Case.....	ABS
Dimension(mm/inch)	
Length ± 2mm.....	241/9.49
Width ± 2mm.....	172/6.78
Container Height ± 2mm.....	331/13.03
Total Height ± 2mm.....	366/14.41
Application.....	Telecom, UPS, Energy Storage Systems, Central Office.

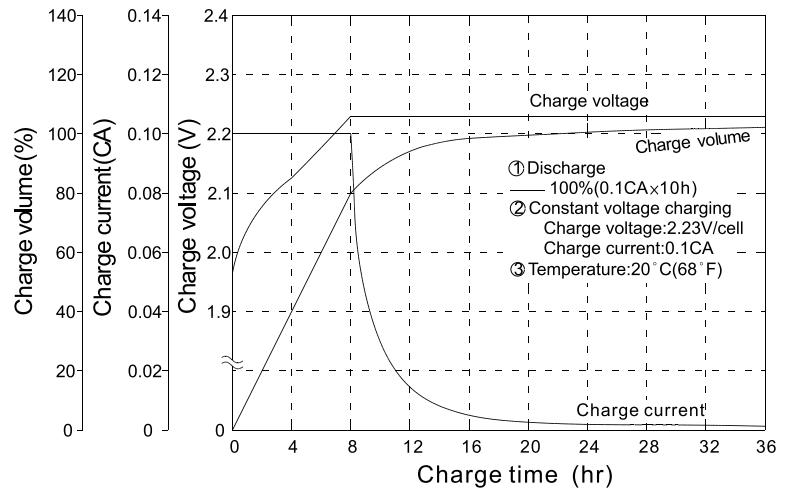
MSB-500 Battery Discharge Characteristics (25°C/77°F)

Note : C=10HR Nominal Capacity(Ah)



Battery Charging Characteristics

(Typical example of the charge characteristic for the standby use)

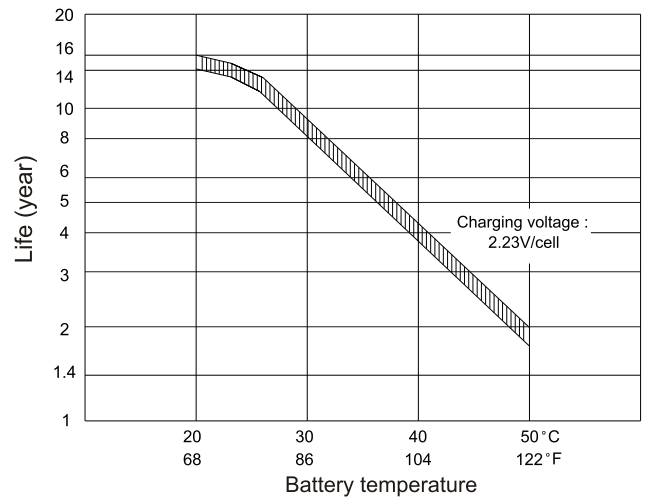


Charging Procedure

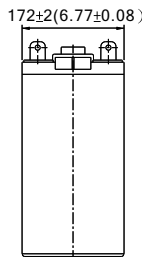
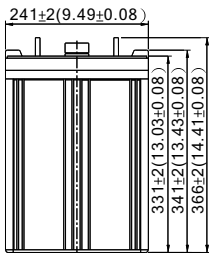
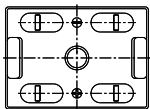
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient (mV/°C/cell)	Max. charging current (A)	Charging time 0.1CA, 20°C (h)	
					100% discharge	50% discharge
For standby power source	Constant voltage (with current restriction)	2.23~2.25	-3	100	24	20

*Temperature compensation of charging voltage is not needed, when the batteries are used within 5°C to 35°C range.

Effect of Temperature on Long Term Float Life

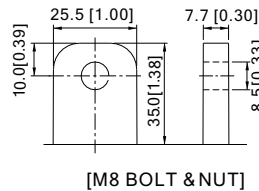


Outer Dimensions mm(inch)



Terminal Type mm(inch)

● Terminal B6



Constant Power Discharge Characteristics At 25°C/77°F

Final Voltage	Discharge time										
	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	8Hr	10Hr	12Hr	20Hr
	Battery output power(W)										
1.80V	728	494	271	236.6	189.6	164.2	142.9	118.5	100.4	79.3	49.5
1.70V	876	562	306	256.0	204.8	176.5	152.5	125.7	107.1	80.3	50.2
1.60V	946	583	317	265.2	212.9	181.6	156.9	128.8	109.2	81.9	51.2



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