



MSJ series
MSJ 500

2V 510Ah



Valve Regulated Lead Acid Battery

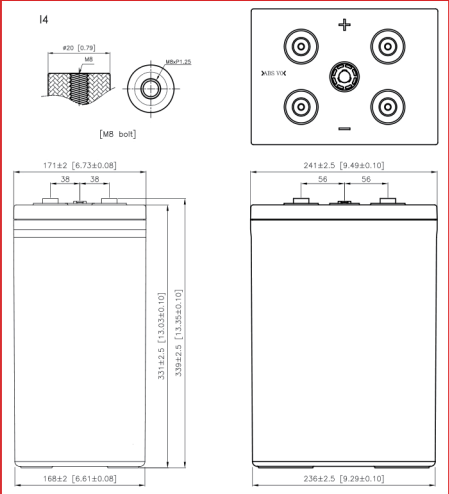
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

<p>【Design Life】 Up to 20 Years in Standby Service at 25°C Eurobat (20°C) : 12 years and longer, Long Life</p> <p>【Operating Temperature Range】 Nominal Operating Temperature : 25°C (77°F) 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)</p>	<p>【Float Charging Voltage】 2.21 ~ 2.25 VDC/Unit at 25°C (77°F)</p> <p>【Equalization Charging Voltage】 2.35 VDC/Unit at 25°C (77°F)</p> <p>【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).</p>
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Specification

Nominal Voltage	2V (single cell per unit)		
Nominal Capacity	510 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 36.50 Kg (80.45 lbs)		
Maximum Discharge Current	3000 A (5sec)		
Internal Resistance	Approx. 0.28 mΩ		
Short Circuit Current	9953A		
Maximum Charge Current	150 A		
Terminal type	I4 thread copper alloy terminal to accept M8 bolt		
Terminal breaking Torque	414 Kgf-cm / 359 Lbf-in / 40.57 N-m		
Container Material	Flame Retardant ABS (UL 94-V0)		
Dimensions	Depth (D)	241.0±2.5 mm	9.49±0.10 inch
	Width (W)	171.0±2.0 mm	6.73±0.08 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	3HR	4HR	5HR	6HR	8HR	10HR	20HR	24HR	
1.60V	927	621	380	218	156	121	98.4	83.3	65.1	53.9	26.9	22.4	
1.67V	830	590	370	215	154	119	97.4	82.5	64.6	53.4	26.7	22.3	
1.70V	780	570	363	213	153	118	96.8	82.0	64.2	53.2	26.6	22.2	
1.75V	702	519	345	208	151	116	95.2	80.7	63.3	52.5	26.2	21.9	
1.80V	600	459	319	199	145	112	92.1	78.5	61.7	51.1	25.6	21.3	
1.83V	530	421	298	191	140	108	89.1	76.2	59.9	49.7	24.9	20.7	

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)													
F.V/Time	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR	24HR	
1.60V	1623	1125	691	415	298	235	195	167	128	101	50.5	42.1	
1.67V	1508	1082	677	411	295	233	194	166	127	100	49.8	41.5	
1.70V	1448	1054	667	408	294	232	193	165	127	99.1	49.5	41.3	
1.75V	1323	986	640	400	289	229	191	164	125	97.7	48.9	40.7	
1.80V	1187	890	597	384	280	223	186	160	121	94.9	47.5	39.6	
1.83V	1070	830	563	369	270	217	181	155	117	92.0	46.0	38.3	

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