



MSV series
MSV 500

2V 500Ah



Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.

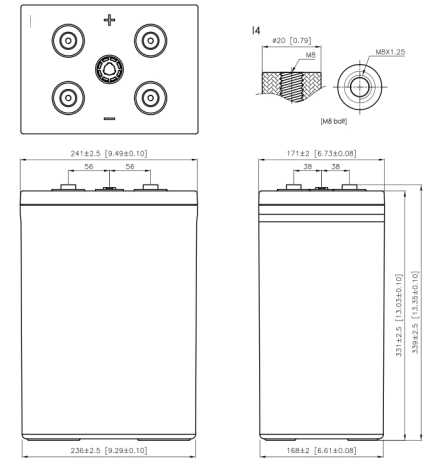
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

<p>【Design Life】 Up to 15 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>
--	---

Specification

Nominal Voltage	2V (single cell per unit)		
Nominal Capacity	500 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 31.20 Kg (68.76 lbs)		
Maximum Discharge Current	3000 A (5sec)		
Internal Resistance	Approx. 0.39 mΩ		
Short Circuit Current	--		
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	732	512	329	194	143	116	96.7	82.8	64.9	52.7	26.4	22.0
1.67V	664	494	326	191	140	114	96.5	82.6	64.6	52.2	26.1	21.8
1.70V	639	478	321	189	139	113	95.8	82.1	64.3	51.8	25.9	21.6
1.75V	577	460	310	186	136	111	94.5	81.2	63.9	51.2	25.6	21.3
1.80V	512	427	295	177	132	109	91.7	79.1	62.6	50.0	25.0	20.8
1.83V	442	382	268	163	125	102	88.4	75.9	59.6	47.2	23.6	19.7

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	1223	894	588	367	274	213	180	156	125	102	51.0	42.5
1.67V	1149	870	581	364	272	210	178	154	124	101	50.5	42.1
1.70V	1118	850	575	361	270	209	177	154	123	100	50.0	41.7
1.75V	1038	810	561	352	267	202	176	153	122	99.2	49.6	41.3
1.80V	943	774	531	348	263	198	173	150	120	98.2	49.1	40.9
1.83V	834	699	496	327	248	191	170	147	117	95.9	48.0	40.0

Guang dong Xi shibi Power Co., Ltd.

Tel: +86 20 34628335

Fax: 626-453-0409

E-mail: csbusa@battery.com

