



MSV series
MSV 650

2V 650Ah



Valve Regulated Lead Acid Battery

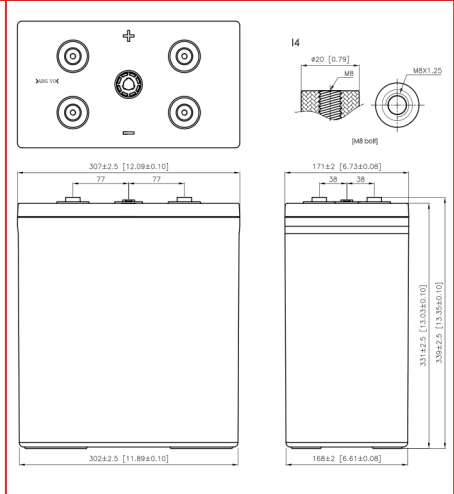
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

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>
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Specification

Nominal Voltage	2V (single cell per unit)		
Nominal Capacity	650 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 41.40 Kg (91.25 lbs)		
Maximum Discharge Current	3900 A (5sec)		
Internal Resistance	Approx. 0.38 mΩ		
Short Circuit Current	--		
Maximum Charge Current	195 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)	307.0±2.5 mm	12.09±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	925	636	421	249	187	148	125	109	86.1	73.1	35.2	29.4
1.67V	844	606	401	241	177	143	120	104	84.5	71.5	35.1	29.2
1.70V	784	591	395	236	176	141	119	102	82.9	69.9	35.0	29.1
1.75V	684	545	364	223	164	134	112	97.5	79.6	66.6	34.6	28.9
1.80V	594	477	343	215	158	128	109	95.9	78.0	65.0	34.0	28.4
1.83V	517	422	317	202	151	122	104	91.0	74.1	63.4	33.4	27.8

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	1516	1119	749	450	338	271	229	202	163	137	67.9	56.6
1.67V	1387	1071	748	447	333	268	228	200	161	135	67.6	56.3
1.70V	1322	1037	723	437	327	267	226	197	158	133	67.4	56.2
1.75V	1197	968	676	418	314	255	216	189	154	130	67.0	55.9
1.80V	1091	866	637	401	301	245	210	184	150	128	66.3	55.2
1.83V	929	751	587	377	288	234	200	176	143	124	65.1	54.3

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