



# MSV series MSV-800



## 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 15 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】

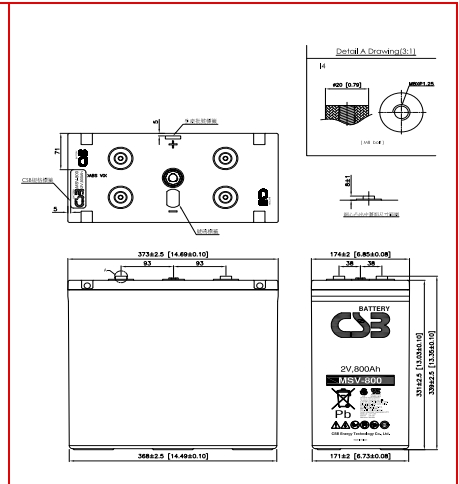
2.35 VDC/Unit at 25°C (77°F)

#### 【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	800 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 50.60 Kg (111.52 lbs)		
Maximum Discharge Current	4800 A (5sec)		
Internal Resistance	Approx. 0.38 mΩ		
Short Circuit Current	--		
Maximum Charge Current	240 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 ABS (UL 94-V0)		
Dimensions	Length (L)	373.0±2.5 mm	14.69±0.10 inch
	Width (W)	174.0±2.0 mm	6.85±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	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	1138	783	518	306	262	230	154	134	106	90.0	45.0	37.5
1.67V	1038	746	494	296	250	218	148	128	104	88.0	44.0	36.7
1.70V	964	728	486	290	247	216	146	126	102	86.0	43.0	35.8
1.75V	842	671	448	274	232	202	138	120	98.0	82.0	41.0	34.2
1.80V	732	587	422	264	223	194	134	118	96.0	80.0	40.0	33.3
1.83V	636	519	390	248	212	186	128	112	91.2	78.0	39.0	32.5

### 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	1865	1378	922	554	473	416	282	248	200	168	84.0	70.0
1.67V	1707	1318	920	550	468	410	280	246	198	166	83.0	69.2
1.70V	1627	1276	890	538	458	402	278	242	194	164	82.0	68.3
1.75V	1473	1191	832	514	439	386	266	232	190	160	80.0	66.7
1.80V	1343	1066	784	494	421	370	258	226	184	158	79.0	65.8
1.83V	1144	925	722	464	400	354	246	216	176	152	76.0	63.3

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

Issued: 201112

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



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