



## MU series

# MU 1000S 2V 1000AH



### 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

#### 【Design Life】

Up to 20 Years in Standby Service at 25°C  
Eurobat (20°C) : 12 years and longer, Long Life

#### 【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)

#### 【Float Charging Voltage】

2.21 ~ 2.25 VDC/Unit at 25°C (77°F)

#### 【Equalization Charging Voltage】

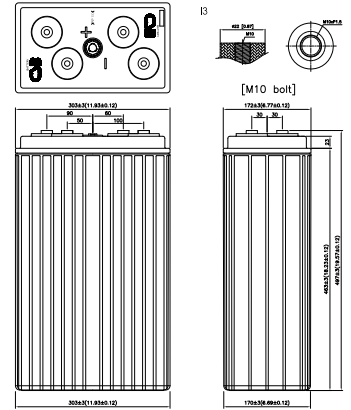
2.35 VDC/Unit at 25°C (77°F)

#### 【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	1000 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 62.50 Kg (137.75 lbs)		
Maximum Discharge Current	6000 A (5sec)		
Internal Resistance	Approx. 0.37mΩ		
Short Circuit Current	--		
Maximum Charge Current	300 A		
Terminal type	I3 thread copper alloy terminal to accept M10 bolt		
Terminal hardware Torque	612 Kgf-cm / 531 Lbf-in / 60.0 N-m		
Container Material	Flame Retardant Polypropylene (UL 94-V0)		
Dimensions	Length (L)	303.0±3.0 mm	11.93±0.12 inch
	Width (W)	172.0±3.0 mm	6.77±0.12 inch
	Depth (D)	497.0±3.0 mm	19.57±0.12 inch



#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	1087	678	509	417	313	246	205	175	137	112	56.0	46.7
1.67V	1042	662	498	407	306	242	200	172	134	110	55.0	45.8
1.70V	983	637	483	394	295	235	194	167	130	106	53.0	44.2
1.75V	901	602	459	377	283	227	188	162	127	104	52.0	43.3
1.80V	807	553	427	355	267	216	179	155	122	100	50.0	41.7
1.83V	714	503	394	331	250	204	169	146	117	95.0	47.5	39.6

#### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	1707	1173	886	734	554	438	369	317	249	205	103	85.4
1.67V	1678	1152	872	724	548	436	364	315	247	204	102	85.0
1.70V	1642	1121	855	709	534	430	357	311	243	199	99.5	82.9
1.75V	1541	1066	817	682	515	418	348	303	239	197	98.5	82.1
1.80V	1420	990	769	650	491	402	335	291	231	190	95.0	79.2
1.83V	1307	920	725	619	470	388	323	279	225	183	91.5	76.3

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

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

