



# MU series MU1500S



## 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 20 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】

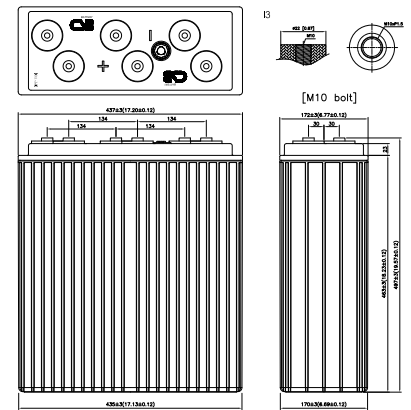
2.35 VDC/Unit at 25°C (77°F)

#### 【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           | 1500 Ah @10hr-rate to 1.80V per cell @25°C (77°F)  |              |                 |
| Weight                     | Approx. 91.50 Kg (201.67 lbs)                      |              |                 |
| Maximum Discharge Current  | 9000 A (5sec)                                      |              |                 |
| Internal Resistance        | Approx. 0.31 mΩ                                    |              |                 |
| Short Circuit Current      | --   |              |                 |
| Maximum Charge Current     | 450 A  |              |                 |
| Terminal types             | I3 thread copper alloy terminal to accept M10 bolt |              |                 |
| Terminal tightening torque | 249±50 Kgf·cm / 216±43 Lbf·in / 24.4±4.9 N·m       |              |                 |
| Container Material         | Flame Retardant Polypropylene (UL 94-V0)           |              |                 |
| Dimensions                 | Length (L)   | 437.0±3.0 mm | 17.20±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 | 2.5HR | 3HR | 5HR | 6HR | 8HR | 10HR | 20HR | 24HR |
|----------|-------|-------|-------|-----|-------|-----|-----|-----|-----|------|------|------|
| 1.60V    | 1630  | 1017  | 763   | 625 | 534   | 470 | 308 | 263 | 205 | 169  | 84.5 | 70.4 |
| 1.67V    | 1563  | 993   | 746   | 610 | 522   | 459 | 301 | 258 | 201 | 165  | 82.5 | 68.8 |
| 1.70V    | 1475  | 956   | 725   | 591 | 504   | 442 | 291 | 251 | 195 | 160  | 80.0 | 66.7 |
| 1.75V    | 1351  | 904   | 688   | 566 | 483   | 425 | 282 | 243 | 190 | 156  | 78.0 | 65.0 |
| 1.80V    | 1210  | 830   | 641   | 533 | 415   | 401 | 269 | 232 | 183 | 150  | 75.0 | 62.5 |
| 1.83V    | 1071  | 754   | 591   | 497 | 426   | 375 | 254 | 220 | 175 | 143  | 71.5 | 59.6 |

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

| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR  | 2.5HR | 3HR | 5HR | 6HR | 8HR | 10HR | 20HR | 24HR |
|----------|-------|-------|-------|------|-------|-----|-----|-----|-----|------|------|------|
| 1.60V    | 2559  | 1759  | 1328  | 1100 | 943   | 832 | 554 | 476 | 373 | 309  | 155  | 129  |
| 1.67V    | 2516  | 1728  | 1306  | 1086 | 932   | 822 | 548 | 472 | 370 | 305  | 153  | 127  |
| 1.70V    | 2463  | 1683  | 1283  | 1064 | 909   | 800 | 535 | 467 | 365 | 301  | 151  | 125  |
| 1.75V    | 2310  | 1600  | 1225  | 1024 | 878   | 774 | 522 | 454 | 357 | 295  | 148  | 123  |
| 1.80V    | 2130  | 1486  | 1154  | 975  | 836   | 738 | 503 | 436 | 346 | 285  | 143  | 119  |
| 1.83V    | 1960  | 1380  | 1087  | 929  | 798   | 705 | 485 | 420 | 336 | 276  | 138  | 115  |

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

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



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