



**MU series**  
**MU 1000S**

2V 1000Ah



**Valve Regulated Lead Acid Battery**

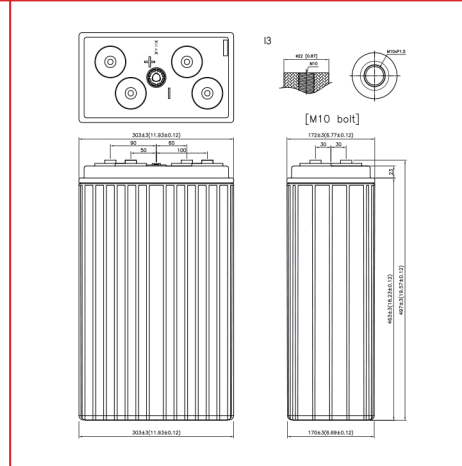
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**Design for Standby Power Applications**

|  |  |
|--|--|
| <p><b>【 Design Life 】</b><br/>Up to 20 Years in Standby Service at 25°C<br/>Eurobat (20°C) : 12 years and longer, Long Life</p> <p><b>【 Operating Temperature Range 】</b><br/>Nominal Operating Temperature : 25°C (77°F)<br/>Discharge : -20°C ~ 50°C (-4°F~122°F)<br/>Charge: 0°C ~ 40°C (32°F~104°F)<br/>Storage: -20°C ~ 40°C (-4°F~104°F)</p> | <p><b>【 Float Charging Voltage 】</b><br/>2.21 ~ 2.25 VDC/Unit at 25°C (77°F)</p> <p><b>【 Equalization Charging Voltage 】</b><br/>2.35 VDC/Unit at 25°C (77°F)</p> <p><b>【 Self Discharge 】</b><br/>Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);<br/>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          | 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. 0.31mΩ                                     |              |                 |
| Short Circuit Current     | --   |              |                 |
| Maximum Charge Current    | 300 A  |              |                 |
| Terminal type             | I3 thread copper alloy terminal to accept M10 bolt |              |                 |
| Terminal breaking 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.

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