



## 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】

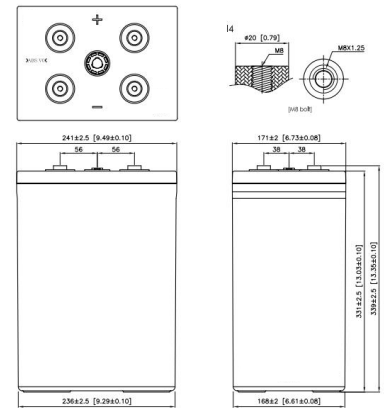
2.35 VDC/Unit at 25°C (77°F)

#### 【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           | 500Ah@10HR-rate to 1.80V per cell @25°C (77°F)    |                             |
| Weight                     | Approx. 31.20 Kg (68.76 lbs)                      |                             |
| Maximum Discharge Current  | 3000A (5sec)                                      |                             |
| Internal Resistance        | Approx. 0.39 mΩ                                   |                             |
| Short Circuit Current      | 7258A   |                             |
| Maximum Charge Current     | 150.0A  |                             |
| 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)  | 241.0±2.5 mm 9.49±0.10inch  |
|                            | Width (W)   | 171.0±2.0 mm 6.73±0.08inch  |
|                            | Container Height (h)                              | 331.0±2.5 mm 13.03±0.10inch |
|                            | Overall Height (H)                                | 339.0±2.5 mm 13.15±0.10inch |



### 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    | 732   | 512   | 329   | 194 | 143 | 116 | 96.7 | 82.8 | 64.9 | 52.7 | 26.4 | 22.0 |
| 1.67V    | 664   | 494   | 326   | 191 | 140 | 114 | 96.5 | 82.6 | 64.6 | 52.2 | 26.1 | 21.8 |
| 1.70V    | 639   | 478   | 321   | 189 | 139 | 113 | 95.8 | 82.1 | 64.3 | 51.8 | 25.9 | 21.6 |
| 1.75V    | 577   | 460   | 310   | 186 | 136 | 111 | 94.5 | 81.2 | 63.9 | 51.2 | 25.6 | 21.3 |
| 1.80V    | 512   | 427   | 295   | 177 | 132 | 109 | 91.7 | 79.1 | 62.6 | 50.0 | 25.0 | 20.8 |
| 1.83V    | 442   | 382   | 268   | 163 | 125 | 102 | 88.4 | 75.9 | 59.6 | 47.2 | 23.6 | 19.7 |

### 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    | 1223  | 894   | 588   | 367 | 274 | 213 | 180 | 156 | 125 | 102  | 51.0 | 42.5 |
| 1.67V    | 1149  | 870   | 581   | 364 | 272 | 210 | 178 | 154 | 124 | 101  | 50.5 | 42.1 |
| 1.70V    | 1118  | 850   | 575   | 361 | 270 | 209 | 177 | 154 | 123 | 100  | 50.0 | 41.7 |
| 1.75V    | 1038  | 810   | 561   | 352 | 267 | 202 | 176 | 153 | 122 | 99.2 | 49.6 | 41.3 |
| 1.80V    | 943   | 774   | 531   | 348 | 263 | 198 | 173 | 150 | 120 | 98.2 | 49.1 | 40.9 |
| 1.83V    | 834   | 699   | 496   | 327 | 248 | 191 | 170 | 147 | 117 | 95.9 | 48.0 | 40.0 |

Please refer to the official site for the latest rating confirmation.

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