



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 Cyclic Applications

[Design Life]

400 cycles@100%DOD at 25°C
1800cycles@30%DOD at 25°C

[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)

[Equalization Charging Voltage]

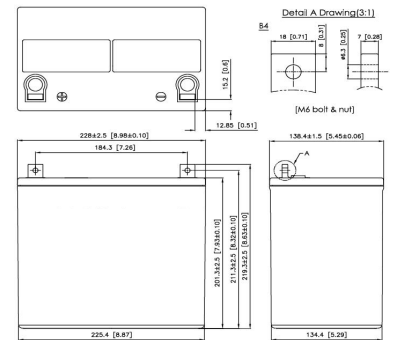
14.4~15.0 VDC/Unit at 25°C (77°F)

[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 | 12V (6 cells per unit) | |
| Nominal Capacity | 52AH @20HR-rate to 1.75V per cell @25°C (77°F) | |
| Weight | Approx. 17.87Kg (39.39 lbs) | |
| Maximum Discharge Current | 500A (5sec) | |
| Internal Resistance | Approx. 5.2 mQ | |
| Short Circuit Current | -- | |
| Maximum Charge Current | 15.60A | |
| Terminal types | B4 terminal to accept M6 bolt | |
| Terminal tightening torque | 51.7±10.3 Kg·cm / 44.9±9.0 lbf·in /5.1±1.0 N·m | |
| Container Material | PP (UL 94-HB) | |
| Dimensions | Length (L) | 228.0±2.5 mm 8.98±0.10 inch |
| | Width (W) | 138.4±1.5 mm 5.45±0.06inch |
| | Container Height (h) | 201.3±2.5 mm 7.93±0.10 inch |
| | Overall Height (H) | 219.3±2.5 mm 8.63±0.10 inch |



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

| F.V/Time | 30min | 45min | 60min | 90min | 2hr | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr | 20hr |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V | 64.9 | 46.6 | 36.8 | 27.0 | 21.0 | 14.8 | 11.7 | 9.60 | 8.30 | 6.60 | 5.42 | 2.84 |
| 1.65V | 63.5 | 45.9 | 36.4 | 26.8 | 20.8 | 14.6 | 11.6 | 9.52 | 8.22 | 6.52 | 5.36 | 2.80 |
| 1.70V | 62.1 | 45.0 | 35.8 | 26.5 | 20.6 | 14.5 | 11.5 | 9.45 | 8.15 | 6.45 | 5.29 | 2.76 |
| 1.75V | 60.6 | 44.1 | 35.2 | 26.1 | 20.3 | 14.3 | 11.4 | 9.37 | 8.05 | 6.34 | 5.21 | 2.72 |
| 1.80V | 59.2 | 43.3 | 34.7 | 25.6 | 20.1 | 14.2 | 11.3 | 9.26 | 7.94 | 6.22 | 5.12 | 2.68 |
| 1.85V | 57.8 | 42.5 | 34.2 | 25.1 | 19.9 | 14.1 | 11.2 | 9.16 | 7.83 | 6.11 | 5.03 | 2.62 |

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

| F.V/Time | 30min | 45min | 60min | 90min | 2hr | 3hr | 4hr | 5hr | 6hr | 8hr | 10hr | 20hr |
|----------|-------|-------|-------|-------|-----|-----|-----|------|------|------|------|------|
| 1.60V | 668 | 485 | 386 | 284 | 221 | 154 | 124 | 102 | 88.6 | 70.9 | 58.7 | 33.6 |
| 1.65V | 656 | 478 | 382 | 281 | 219 | 153 | 123 | 101 | 87.7 | 70.2 | 58.1 | 33.1 |
| 1.70V | 645 | 472 | 378 | 277 | 217 | 152 | 122 | 100 | 86.8 | 69.4 | 57.4 | 32.5 |
| 1.75V | 631 | 463 | 372 | 273 | 214 | 151 | 121 | 99.0 | 85.9 | 68.6 | 56.7 | 31.8 |
| 1.80V | 615 | 455 | 368 | 269 | 212 | 150 | 120 | 98.1 | 84.9 | 67.6 | 55.8 | 31.1 |
| 1.85V | 598 | 447 | 363 | 264 | 209 | 149 | 119 | 97.0 | 83.6 | 66.1 | 54.8 | 30.4 |

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

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