

UPG Sealed Lead-Acid Battery

STAY POWERED™

Absorbant Glass Mat (AGM) technology for superior performance. Valve regulated, spill proof construction allows safe operation in any position. Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified. U.L. recognized under file number MH 20567.

UPG No. 45971

UB8D

Maintenance-Free

Specification

| | | | |
|---|----------------------------------|--------------|---------------|
| Nominal Voltage | 12 volts | | |
| Nominal Capacity | 77° F (25° C) | | |
| 20-hr. (12.5A) | 250 Ah | | |
| 10-hr. (23.3A) | 233 Ah | | |
| 5-hr. (42.5A) | 213 Ah | | |
| 1-hr. (150A) | 150 Ah | | |
| Approximate Weight | 154 lbs (70 kgs) | | |
| Internal Resistance (approx.) | 4 mOHMS | | |
| Shelf Life (% of normal capacity at 68° F (20° C)) | | | |
| 3 Months | 6 Months | 12 Months | |
| 91% | 83% | 64% | |
| Temperature Dependency of Capacity (20 hour rate) | | | |
| 104° F (40° C) | 77° F (25° C) | 32° F (0° C) | 5° F (-15° C) |
| 102% | 100% | 85% | 65% |
| AGM Operational Temperature | | | |
| Charge | 32° F to 104° F (0° C to 40° C) | | |
| Discharge | 5° F to 113° F (-15° C to 45° C) | | |
| AGM Storage Temperature | 5° F to 104° F (-15° C to 40° C) | | |



Due to continuous improvements to our products, product may vary slightly from depiction.

Charge Method (Constant Voltage)

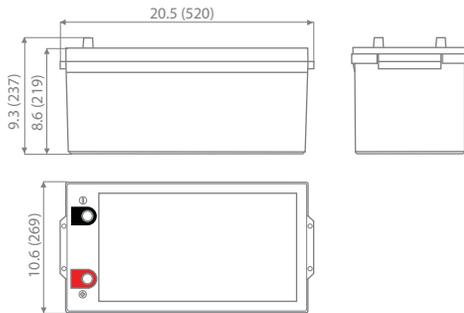
Cycle Use (Repeating Use)

| | |
|-----------------|-----------------|
| Initial Current | 75 A or smaller |
| Control Voltage | 14.6 - 14.8 V |

Float Use

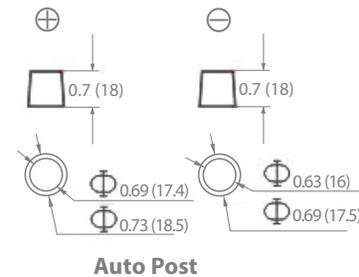
| | |
|-----------------|---------------|
| Control Voltage | 13.6 - 13.8 V |
|-----------------|---------------|

Physical Dimensions: in (mm)



L: 20.5 in (520 mm)
W: 10.6 in (269 mm)
H: 8.6 in (219 mm)
TH: 9.3 in (237 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



Auto Post

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

| F.V/Time | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-----|-----|-----|-----|-----|-----|------|------|
| 9.60V | 229 | 147 | 86 | 63 | 49 | 40 | 29 | 26 | 13.9 |
| 10.20V | 214 | 138 | 82 | 61 | 48 | 40 | 28 | 25 | 13.5 |
| 10.50V | 204 | 133 | 80 | 60 | 47 | 39 | 28 | 24 | 13.4 |
| 10.80V | 196 | 130 | 78 | 58 | 46 | 38 | 27 | 24 | 13.2 |
| 11.10V | 183 | 125 | 76 | 56 | 45 | 37 | 26 | 23 | 12.6 |

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

| F.V/Time | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|------|-----|-----|-----|-----|-----|------|------|
| 9.60V | 2429 | 1700 | 992 | 728 | 566 | 467 | 329 | 297 | 161 |
| 10.20V | 2333 | 1598 | 947 | 708 | 553 | 459 | 323 | 290 | 157 |
| 10.50V | 2268 | 1547 | 924 | 691 | 544 | 454 | 320 | 286 | 155 |
| 10.80V | 2270 | 1503 | 905 | 678 | 532 | 444 | 313 | 285 | 154 |
| 11.10V | 2183 | 1485 | 903 | 669 | 530 | 443 | 312 | 276 | 149 |



ISO 9001

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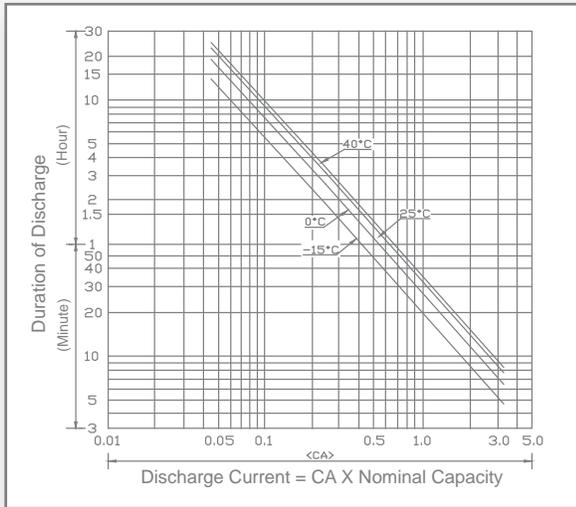
All specifications subject to change without notice.

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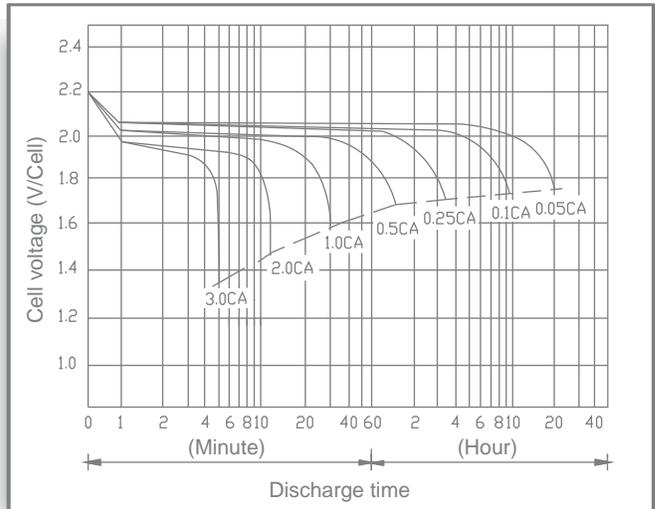
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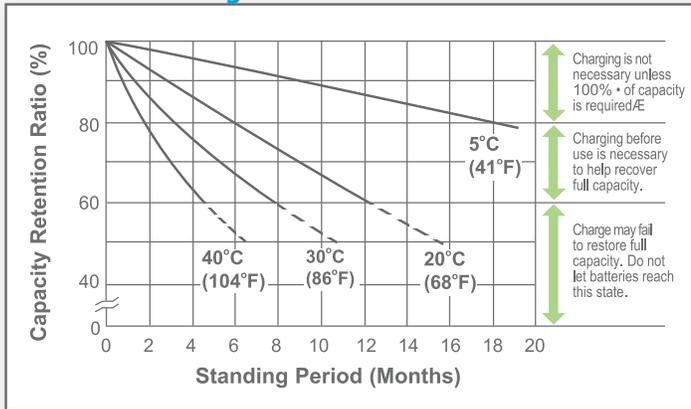
Discharge Time vs. Discharge Current



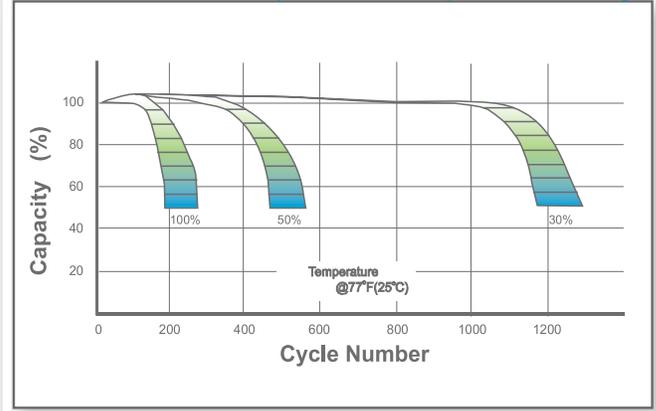
Discharge Characteristics



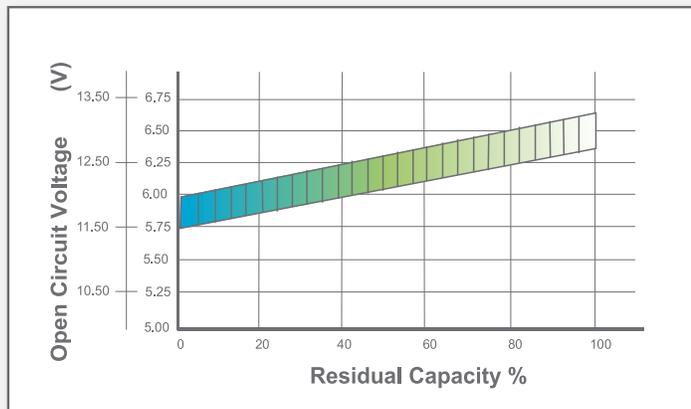
Shelf Life & Storage



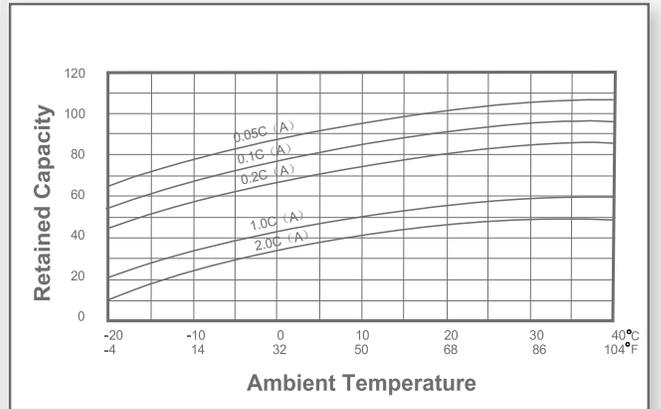
Cycle Life vs Depth of Discharge



Open Circuit Voltage vs Residual Capacity



Effect of Temperature on Capacity



Charge Current & Final Discharge Voltage

| Application | Charge Voltage(V/Cell) | | | Max.Charge Current | Final Discharge Voltage V/Cell | Discharge Current(A) |
|-------------|------------------------|-----------|-----------------|--------------------|--------------------------------|----------------------|
| | Temperature | Set Point | Allowable Range | | | |
| Cycle Use | 25°C(77°F) | 2.45 | 2.40-2.50 | 0.30C | 1.75 | 1.70 |
| Standby | 25°C(77°F) | 2.28 | 2.27-2.30 | | 1.60 | 1.30 |
| | | | | | | 0.2C>(A) |
| | | | | | | 0.2C<(A)<0.5C |
| | | | | | | 0.5C<(A)<1.0C |
| | | | | | | (A)>1.0C |