

# Sealed Lead-Acid Battery

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.

# UX121100

Maintenance-Free

## Specification

|                                                           |          |                              |      |
|-----------------------------------------------------------|----------|------------------------------|------|
| <b>Nominal Voltage</b>                                    |          | 12 volts                     |      |
| <b>Nominal Capacity</b>                                   |          | 77° F (25° C)                |      |
| 20-hr. (5.50A)                                            |          | 110 Ah                       |      |
| 10-hr. (10.23A)                                           |          | 102.3 Ah                     |      |
| 5-hr. (18.70A)                                            |          | 93.5 Ah                      |      |
| 1-hr. (66.00A)                                            |          | 66.0 Ah                      |      |
| <b>Approximate Weight</b>                                 |          | 65.5 lbs (29.0 kgs)          |      |
| <b>Internal Resistance</b> (approx.)                      |          | 5mΩ                          |      |
| <b>Shelf Life</b> (% of normal capacity at 77° F (25° C)) |          |                              |      |
| 3 Months                                                  | 6 Months | 12 Months                    |      |
| 91%                                                       | 82%      | 64%                          |      |
| <b>Temperature Dependency of Capacity</b>                 |          | (20 hour rate)               |      |
| 104° F                                                    | 77° F    | 32° F                        | 5° F |
| 102%                                                      | 100%     | 85%                          | 65%  |
| <b>AGM Operational Temperature</b>                        |          |                              |      |
| Charge                                                    |          | 32°F to 104°F (0°C to 40°C)  |      |
| Discharge                                                 |          | 5°F to 113°F (-15°C to 45°C) |      |
| <b>AGM Storage Temperature</b>                            |          | 5°F to 104°F (-15°C to 40°C) |      |
| <b>Recharge Cycles @ 50%</b>                              |          | More than 600 cycles         |      |
| <b>Marine Cranking Amp Rating</b>                         |          | 1,005 Amps                   |      |
| <b>Cold Cranking Amp Rating</b>                           |          | 773 Amps                     |      |
| <b>Reserve Capacity Rating</b>                            |          | 190 Min.                     |      |



## Charge Method (Constant Voltage)

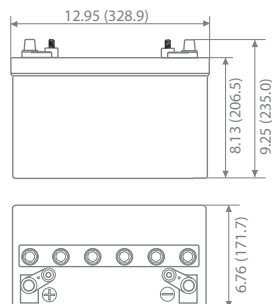
## Cycle Use (Repeating Use)

|                 |                 |
|-----------------|-----------------|
| Initial Current | 33 A or smaller |
| Control Voltage | 14.6 - 14.8 V   |

## Float Use

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

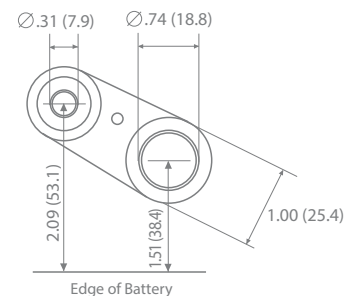
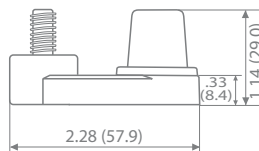
## Physical Dimensions: in (mm)



L: 12.95in (328.9 mm)  
W: 6.76in (171.7 mm)  
H: 8.13in (206.5 mm)  
TH: 9.25in (235.0 mm)  
Tolerances are +/- 0.04 in. (+/- 1mm)  
and +/- 0.08 in. (+/- 2mm) for height  
dimensions. All data subject to  
change without notice.

## Terminals

## Marine Combo Post



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

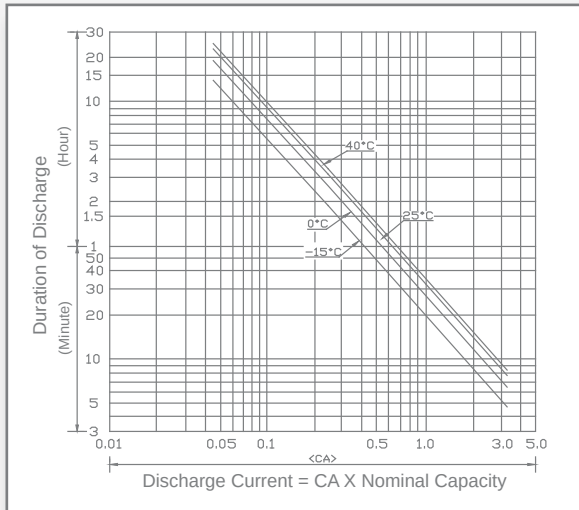
| F.V/Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 9.60V    | 361.1 | 269.3 | 189.5 | 114.7 | 59.9 | 34.9 | 25.6 | 20.0 | 16.5 | 11.6 | 10.5 | 5.7  |
| 10.20V   | 325.2 | 245.4 | 169.6 | 108.7 | 56.3 | 33.3 | 24.9 | 19.5 | 16.2 | 11.4 | 10.2 | 5.5  |
| 10.50V   | 313.2 | 233.4 | 159.6 | 105.7 | 54.9 | 32.5 | 24.3 | 19.2 | 16.0 | 11.3 | 10.0 | 5.5  |
| 10.80V   | 301.2 | 221.4 | 149.6 | 102.7 | 52.9 | 31.7 | 23.7 | 18.9 | 15.6 | 11.0 | 10.0 | 5.4  |
| 11.10V   | 289.3 | 209.5 | 139.7 | 99.8  | 50.9 | 30.9 | 22.9 | 18.3 | 15.2 | 10.7 | 9.5  | 5.1  |

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

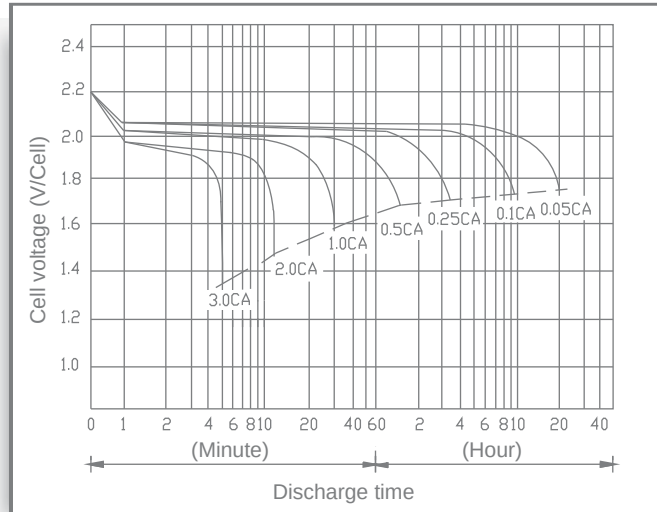
| F.V/Time | 5MIN   | 10MIN  | 15MIN  | 30MIN  | 1HR   | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR |
|----------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 9.60V    | 3919.2 | 2959.6 | 2013.0 | 1217.9 | 693.3 | 404.0 | 297.3 | 231.4 | 190.5 | 134.7 | 121.7 | 65.5 |
| 10.20V   | 3610.0 | 2724.2 | 1882.3 | 1207.0 | 651.4 | 386.0 | 289.3 | 225.4 | 149.7 | 131.7 | 118.7 | 63.8 |
| 10.50V   | 3552.1 | 2647.4 | 1809.5 | 1199.0 | 630.4 | 377.1 | 282.3 | 221.4 | 184.5 | 130.7 | 116.7 | 63.0 |
| 10.80V   | 3506.2 | 2577.5 | 1741.6 | 1196.0 | 613.5 | 369.1 | 276.3 | 217.5 | 181.5 | 127.7 | 115.7 | 62.7 |
| 11.10V   | 3442.4 | 2492.8 | 1661.8 | 1187.0 | 605.5 | 368.1 | 273.3 | 216.5 | 180.5 | 126.7 | 112.7 | 60.8 |

All specifications are subject to change.

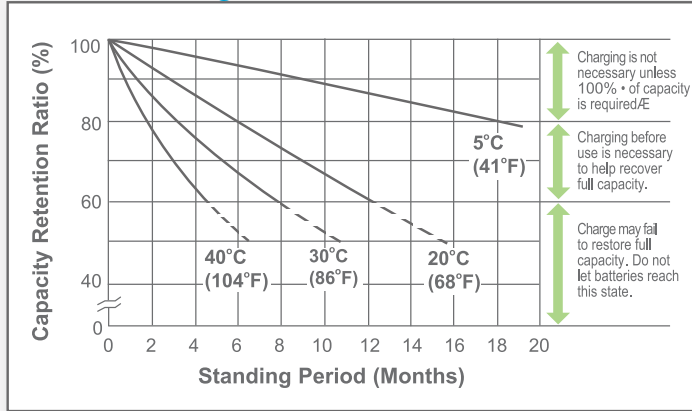
## Discharge Time vs. Discharge Current



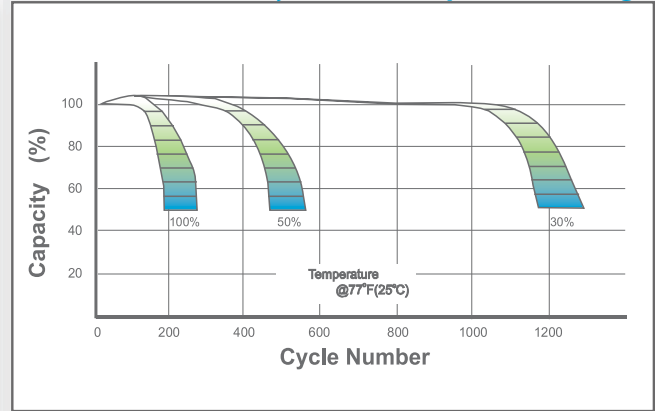
## Discharge Characteristics



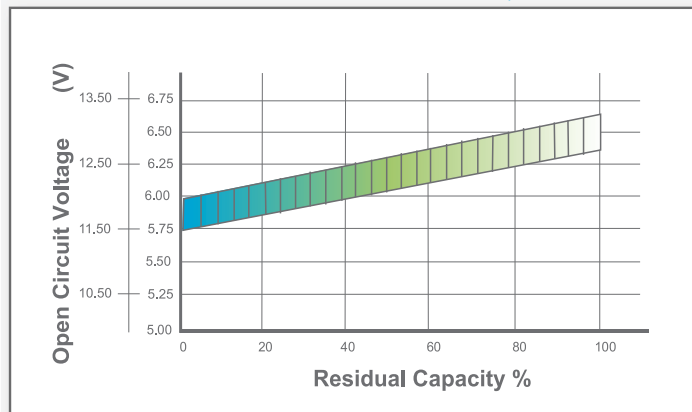
## Shelf Life & Storage



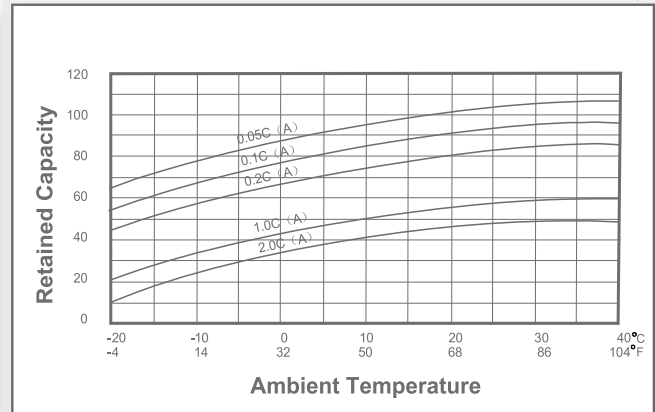
## Cycle Life vs Depth of Discharge



## Open Circuit Voltage vs Residual Capacity



## Effect of Temperature on Capacity



| Application | Charge Voltage(V/Cell) |           |                 | Max.Charge Current |
|-------------|------------------------|-----------|-----------------|--------------------|
|             | Temperature            | Set Point | Allowable Range |                    |
| Cycle Use   | 25°C(77°F)             | 2.45      | 2.40~2.50       | 0.30C              |
| Standby     | 25°C(77°F)             | 2.325     | 2.30~2.35       |                    |

| Final Discharge Voltage V/Cell | 1.75     | 1.70          | 1.60          | 1.30     |
|--------------------------------|----------|---------------|---------------|----------|
| Discharge Current(A)           | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |