

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.

UX12550

Maintenance-Free

Specification

| | | | |
|---|------------------------------|-----------|------|
| Nominal Voltage | 12 volts | | |
| Nominal Capacity | 77° F (25° C) | | |
| 20-hr. (2.75A) | 55 Ah | | |
| 10-hr. (5.12A) | 51.15 Ah | | |
| 5-hr. (9.35A) | 46.75 Ah | | |
| 1-hr. (33.0A) | 33.00 Ah | | |
| Approximate Weight | 40.10 lbs (17.5 kgs) | | |
| Internal Resistance (approx.) | 10mΩ | | |
| Shelf Life (% of normal capacity at 77° F (25° C)) | | | |
| 3 Months | 6 Months | 12 Months | |
| 91% | 82% | 64% | |
| Temperature Dependency of Capacity | (20 hour rate) | | |
| 104° F | 77° F | 32° F | 5° F |
| 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) | | |
| Recharge Cycles @ 50% | More than 600 cycles | | |
| Marine Cranking Amp Rating | 641 Amps | | |
| Cold Cranking Amp Rating | 493 Amps | | |
| Reserve Capacity Rating | 90 Min. | | |



Charge Method (Constant Voltage)

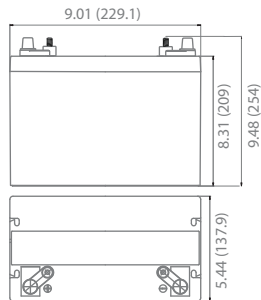
Cycle Use (Repeating Use)

| | |
|-----------------|-------------------|
| Initial Current | 16.5 A or smaller |
| Control Voltage | 14.6 - 14.8 V |

Float Use

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

Physical Dimensions: in (mm)

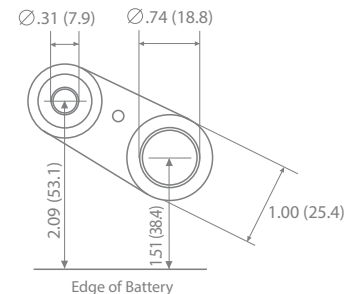
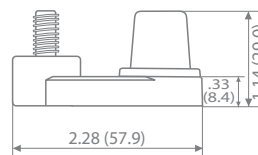


L: 9.01in (229.1 mm)
 W: 5.44in (137.9 mm)
 H: 8.31in (209 mm)
 TH: 9.48in (254 mm)

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)

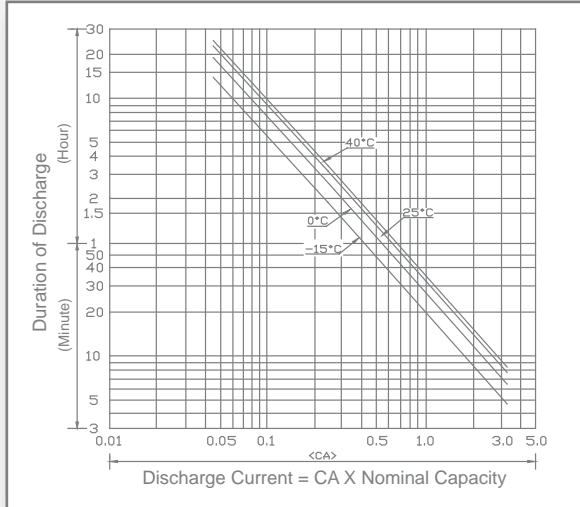
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|-----|-----|-----|------|------|
| 9.60V | 182.8 | 133.4 | 93.9 | 56.8 | 29.6 | 17.3 | 12.7 | 9.9 | 8.2 | 5.7 | 5.2 | 2.8 |
| 10.20V | 161.0 | 121.5 | 84.0 | 53.8 | 27.9 | 16.5 | 12.4 | 9.6 | 8.0 | 5.6 | 5.0 | 2.7 |
| 10.50V | 155.1 | 115.6 | 79.0 | 52.4 | 27.2 | 16.1 | 12.1 | 9.5 | 7.9 | 5.6 | 4.9 | 2.7 |
| 10.80V | 149.2 | 109.7 | 74.1 | 50.9 | 26.2 | 15.7 | 11.8 | 9.3 | 7.7 | 5.4 | 4.9 | 2.7 |
| 11.10V | 143.3 | 103.7 | 69.2 | 49.4 | 25.2 | 15.3 | 11.4 | 9.0 | 7.5 | 5.3 | 4.7 | 2.5 |

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

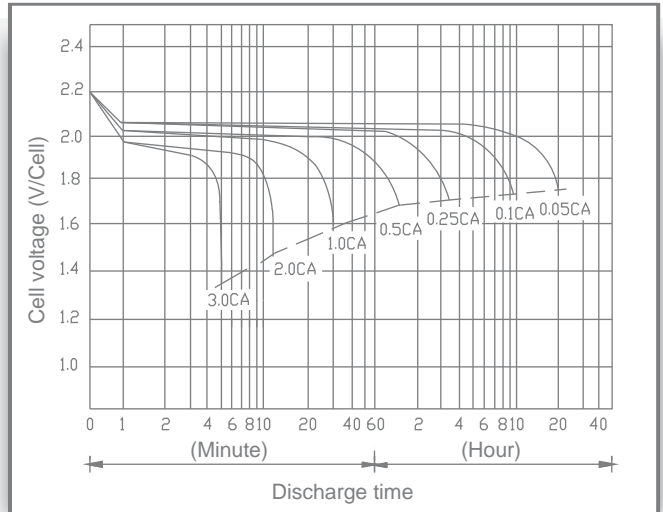
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|--------|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 9.60V | 1940.9 | 1465.7 | 996.9 | 603.2 | 343.3 | 200.1 | 147.2 | 114.6 | 94.4 | 66.7 | 60.3 | 32.5 |
| 10.20V | 1787.8 | 1349.1 | 932.2 | 597.7 | 322.6 | 191.2 | 143.3 | 111.6 | 94.1 | 65.2 | 58.8 | 31.6 |
| 10.50V | 1759.1 | 1311.1 | 896.1 | 593.8 | 312.2 | 186.7 | 139.8 | 109.7 | 91.4 | 64.7 | 57.8 | 31.2 |
| 10.80V | 1736.4 | 1276.5 | 862.5 | 592.3 | 303.8 | 182.8 | 136.8 | 107.7 | 89.9 | 63.2 | 57.3 | 31.1 |
| 11.10V | 1704.8 | 1234.5 | 823.0 | 587.9 | 299.9 | 182.3 | 135.4 | 107.2 | 89.4 | 62.7 | 55.8 | 30.1 |

All specifications are subject to change.

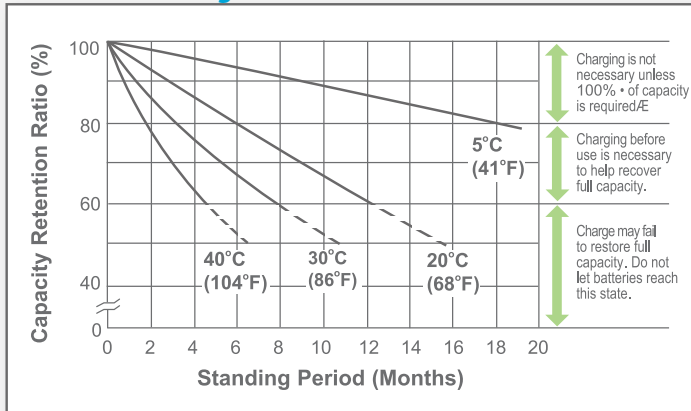
Discharge Time vs. Discharge Current



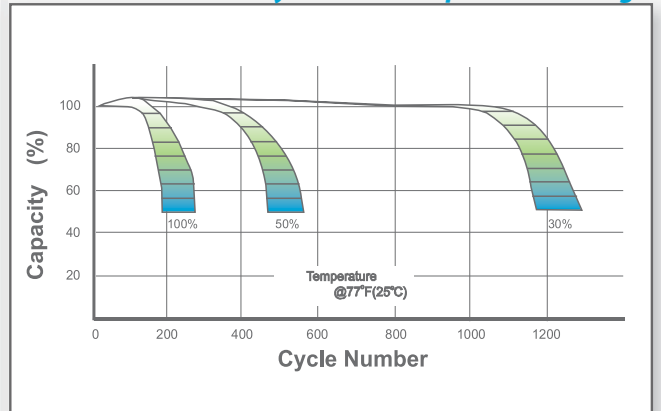
Discharge Characteristics



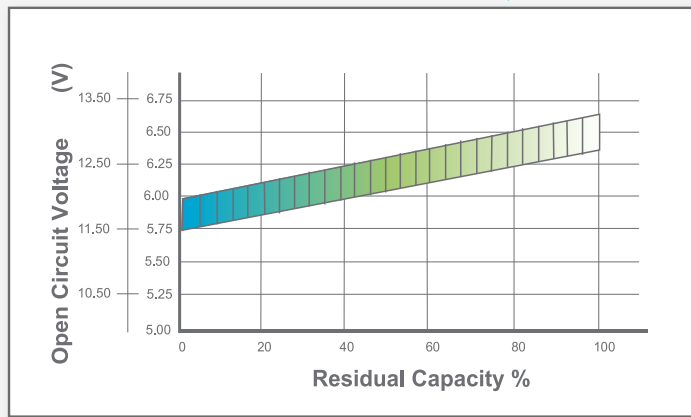
Shelf Life & Storage



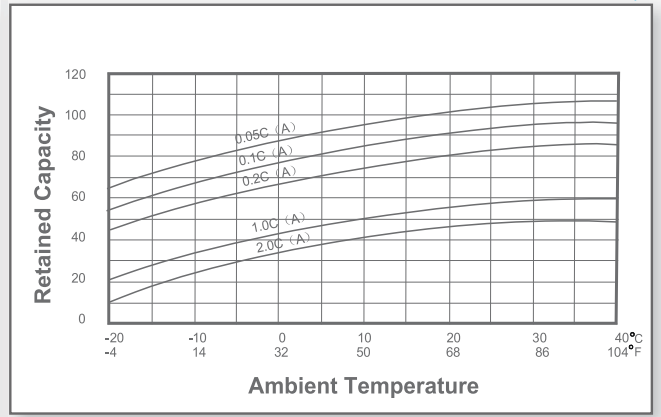
Cycle Life vs Depth of Discharge



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 |