



# Sealed Lead-Acid Battery

UPG No. D5775

# UB12120

Maintenance-Free

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.

## Specification

|   |                   |           |      |
|---|-------------------|-----------|------|
| <b>Nominal Voltage</b>                                    | 12 volts          |           |      |
| <b>Nominal Capacity</b>                                   | 77° F (25° C)     |           |      |
| 20-hr. (0.60A)  | 12.0 Ah           |           |      |
| 10-hr. (1.08A)  | 10.8 Ah           |           |      |
| 5-hr. (1.92A)   | 9.6 Ah            |           |      |
| 1-hr. (7.20A)   | 7.20 Ah           |           |      |
| <b>Approximate Weight</b>                                 | 8.16 lbs (3.7 kg) |           |      |
| <b>Internal Resistance (approx.)</b>                      | 14mΩ              |           |      |
| <b>Shelf Life (% of normal capacity at 77° F (25° C))</b> |                   |           |      |
| 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%  |



## Charge Method (Constant Voltage)

### Cycle Use (Repeating Use)

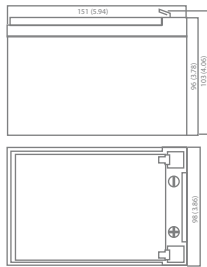
Initial Current 4.2 A or smaller

Control Voltage 14.5-14.9 V

### Float Use

Control Voltage 13.6-13.8 V

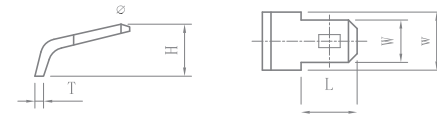
## Physical Dimensions: in (mm)



**L:** 5.94in (151 mm)  
**W:** 3.86in (98 mm)  
**H:** 3.78in (96 mm)  
**TH:** 4.06in (103 mm)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

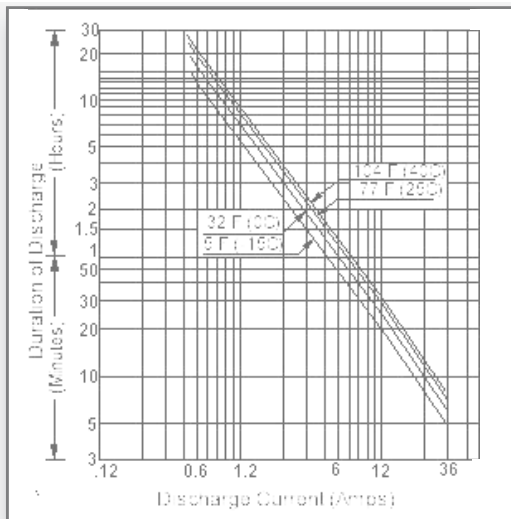
## Terminals



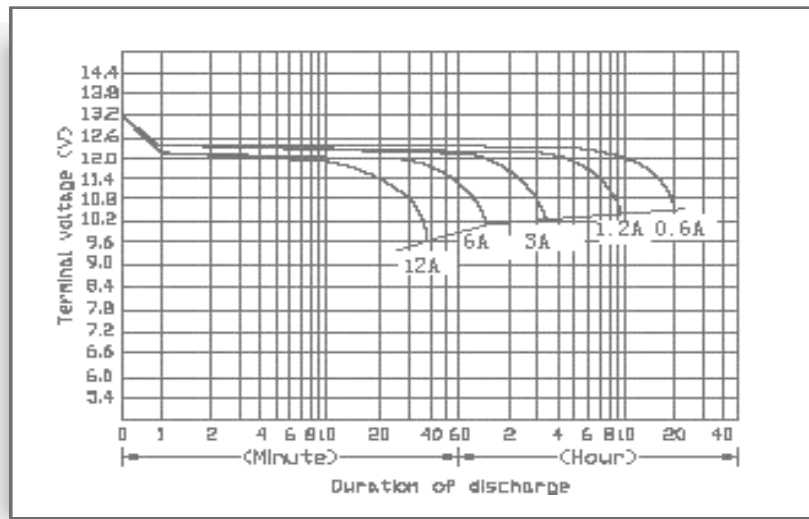
### F Series (Faston Tabs)

| Dimension Type | L    | W    | w    | H    | T    |
|----------------|------|------|------|------|------|
| F1             | 6.50 | 4.75 | 6.00 | 5.00 | 0.80 |
| F2             | 7.80 | 6.35 | 7.80 | 6.00 | 0.80 |

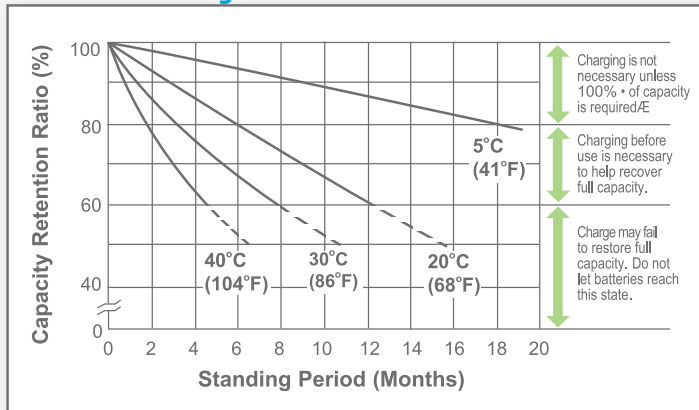
## Discharge Time vs. Discharge Current



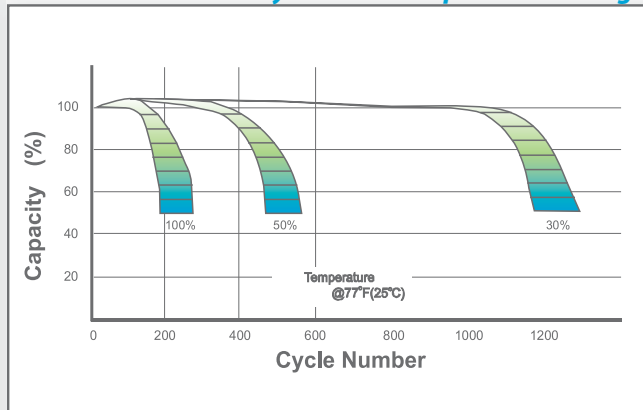
## Discharge Characteristics



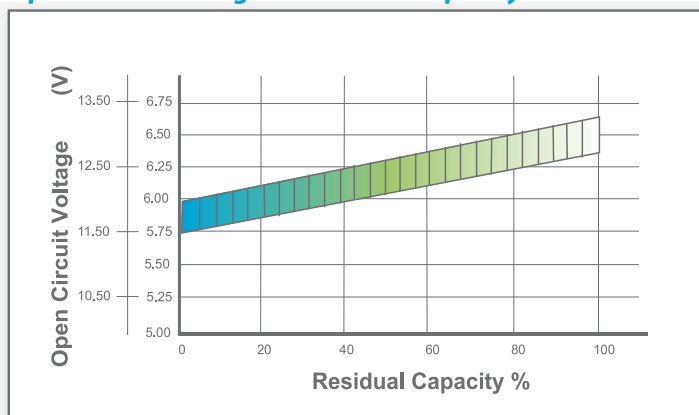
### Shelf Life & Storage



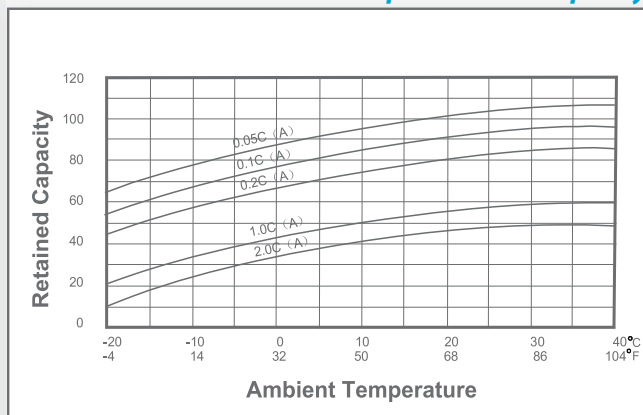
### Cycle Life vs Depth of Discharge



### 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 | 1.75     | 1.70          | 1.60          | 1.30     |
|-------------|------------------------|-----------|-----------------|--------------------|--------------------------------|----------|---------------|---------------|----------|
|             | Temperature            | Set Point | Allowable Range |                    |                                |          |               |               |          |
| Cycle Use   | 25°C(77°F)             | 2.45      | 2.40~2.50       | 0.35C              | Discharge Current(A)           | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |
| Standby     | 25°C(77°F)             | 2.325     | 2.30~2.35       |                    |                                |          |               |               |          |



ISO 9001 :2000

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