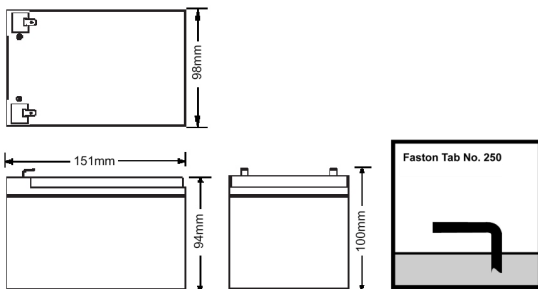




# HIGH PERFORMANCE AM 12-12

## SEALED RECHARGEABLE LEAD ACID BATTERY

### Dimensions and Terminal



|                     |            |              |
|---------------------|------------|--------------|
| Length:151mm        | Width:98mm | Height :94mm |
| Total Height :100mm |            |              |



### Innovative Features

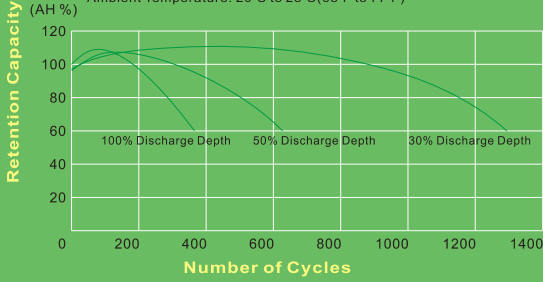
- 5-8 years design life @ 20°C(68°F) ambient temperature, 80% remaining capacity;
- UL Recognized component;
- Rechargeable VRLA batteries with an electrolyte retained in a glass mat with a very fine glass fibre structure.
- High-Compression Absorbed Glass Mat technology (AGM) for over 99% recombination efficiency.
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- Perfect combination between energy storage performance and reliability;
- Operates at a low internal pressure;
- Low self-discharge rate (less than 3% / month @ 20°C(68°F));
- Grid plate construction consisting of a Lead Calcium Tin alloy;
- High impact resistant ABS resin cases and covers;
- Available in V-0 Flame Retardant Material;
- In compliance with IEC 896-2;
- Wide operating temperature range;
- Sealed construction for operation in any position.

### Performance Specifications

|  |  |             |
|--|--|-------------|
| <b>Normal Voltage</b>                              | 12V  |             |
| <b>Normal Capacity</b>                             | 20 hour rate (600 mA to 10.5 volts): 12.0 Ah |             |
|  | 10 hour rate (1.15 A to 10.5 volts): 11.5 Ah |             |
|  | 5 hour rate (2.10 A to 10.2 volts): 10.5 Ah  |             |
|  | 1 hour rate (9.00 A to 9.00 volts): 9.00 Ah  |             |
| <b>Internal Resistance</b>                         | 20.0 milliohms                               |             |
| <b>Approximate Weight</b>                          | 3.50 kg (7.70 lbs)                           |             |
| <b>Applicable Operating Temperature Range</b>      | -40°C(-40°F) to +70°C (+158°F)               |             |
| <b>Ideal Operating Temperature Range</b>           | +20°C (+68°F) to +28°C (+82.4°F)             |             |
| <b>Charge Retention (Shelf Life) at 68°F(20°C)</b> | 1 month                                      | 97%         |
|  | 3 month                                      | 91%         |
|  | 6 month                                      | 85%         |
| <b>Standby Service</b>                             | 8 years                                      |             |
| <b>Cycle Service</b>                               | 100% depth of discharge                      | 350 cycles  |
|  | 50% depth of discharge                       | 650 cycles  |
|  | 30% depth of discharge                       | 1300 cycles |
| <b>Standard Terminals</b>                          | Faston Tab No.250                            |             |

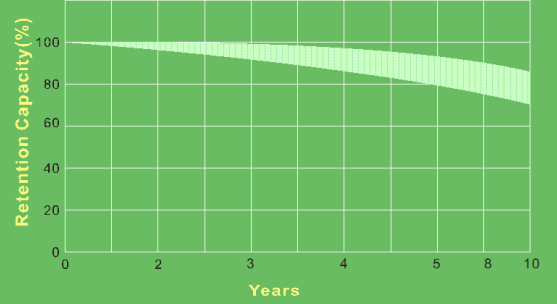
### LIFE CHARACTERISTICS IN CYCLE SERVICE

Discharge Current 0.2C AMP. (Final voltage 1.70 V.P.C)  
Charge Current: 0.1C AMP.  
Ambient Temperature: 20°C to 25°C(68°F to 77°F)

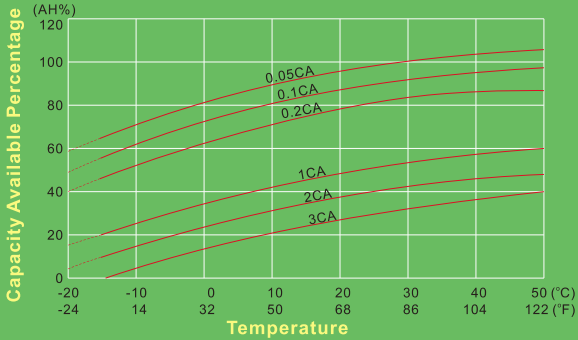


### Float Service Life

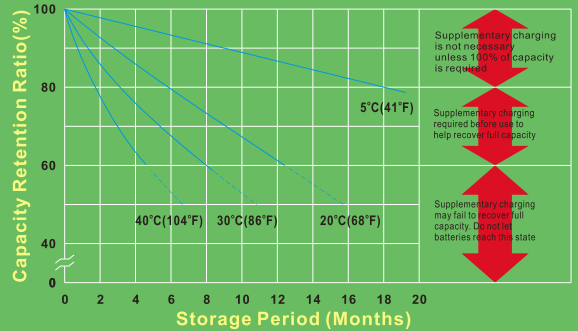
Float Charging Voltage: 2.25~2.30 V.P.C. Ambient Temperature: 20°C(68°F)



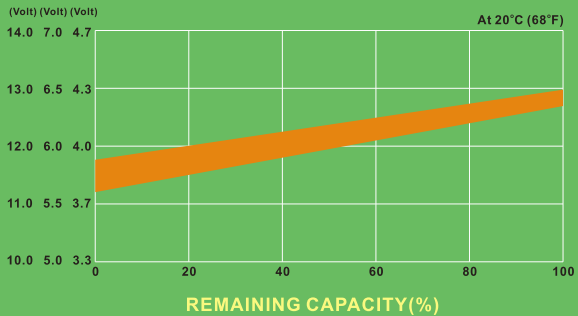
### TEMPERATURE EFFECTS vs CAPACITY



### SHELF LIFE AND STORAGE



### OPEN CIRCUIT VOLTAGE vs REMAINING CAPACITY



### DISCHARGE CHARACTERISTICS

