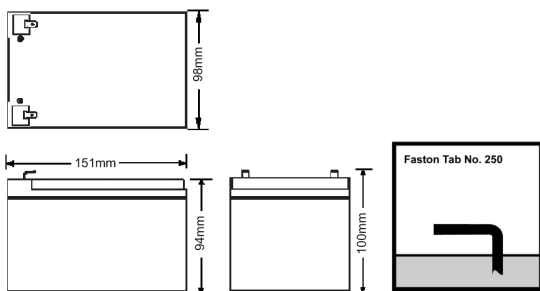




# HIGH PERFORMANCE AM 12-12

## SEALED RECHARGEABLE LEAD ACID BATTERY

### Dimensions and Terminal



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



## AINO MICRO Range VRLA

### 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.

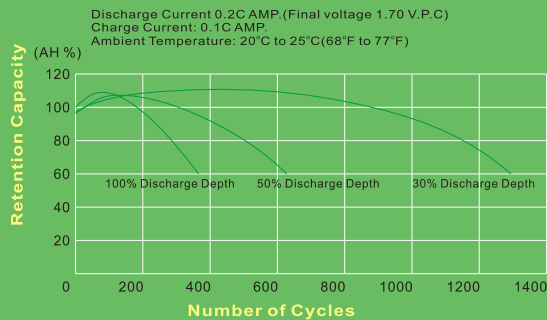
### Performance Specifications

|   |  |             |
|---|--|-------------|
| Normal Voltage                              | 12V  |             |
| Normal Capacity                             | 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  |             |
| Internal Resistance                         | 20.0 milliohms                               |             |
| Approximate Weight                          | 3.80 kg (8.38 lbs)                           |             |
| Applicable Operating Temperature Range      | -40°C(-40°F) to +70°C (+158°F)               |             |
| Ideal Operating Temperature Range           | +20°C (+68°F) to +28°C (+82.4°F)             |             |
| Charge Retention (Shelf Life) at 68°F(20°C) | 1 month                                      | 97%         |
|   | 3 month                                      | 91%         |
|   | 6 month                                      | 85%         |
| Standby Service                             | 8 years                                      |             |
| Cycle Service                               | 100% depth of discharge                      | 350 cycles  |
|   | 50% depth of discharge                       | 650 cycles  |
|   | 30% depth of discharge                       | 1300 cycles |
| Standard Terminals                          | Faston Tab No.250                            |             |

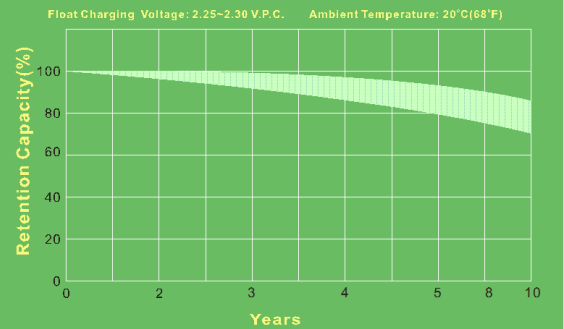
# AINO MICRO Range VRLA

**EverExceed®**  
power your applications

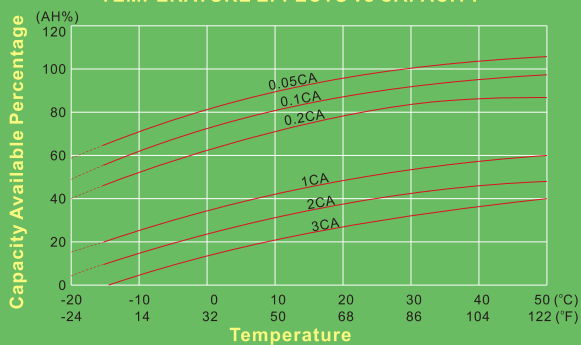
## LIFE CHARACTERISTICS IN CYCLE SERVICE



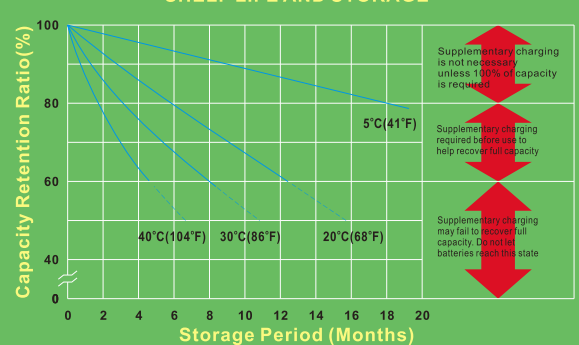
## Float Service Life



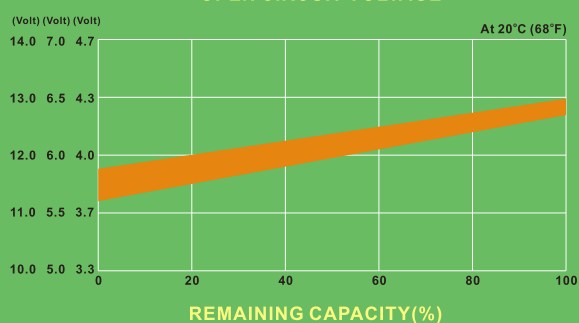
## TEMPERATURE EFFECTS vs CAPACITY



## SHELF LIFE AND STORAGE



## OPEN CIRCUIT VOLTAGE vs REMAINING CAPACITY



## DISCHARGE CHARACTERISTICS

