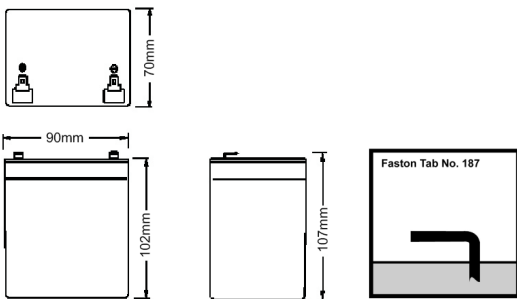




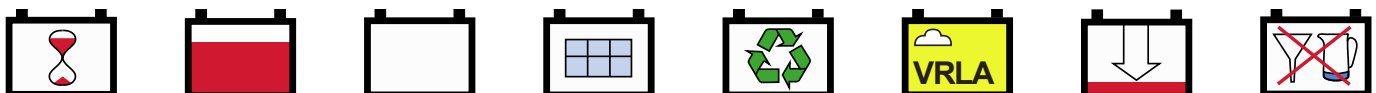
HIGH PERFORMANCE AM 12-5

SEALED RECHARGEABLE LEAD ACID BATTERY

Dimensions and Terminal



| | | |
|---------------------|------------|---------------|
| Length:90mm | Width:70mm | Height :102mm |
| Total Height :107mm | | |



AINO MICRO Range VRLA

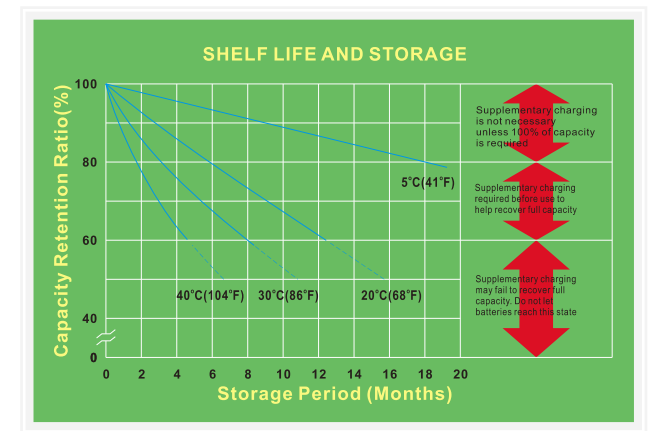
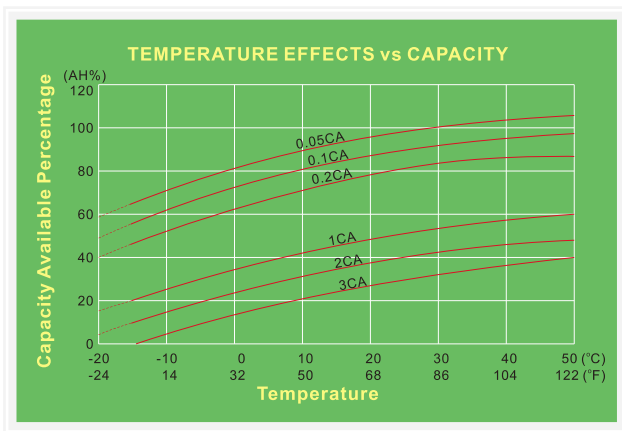
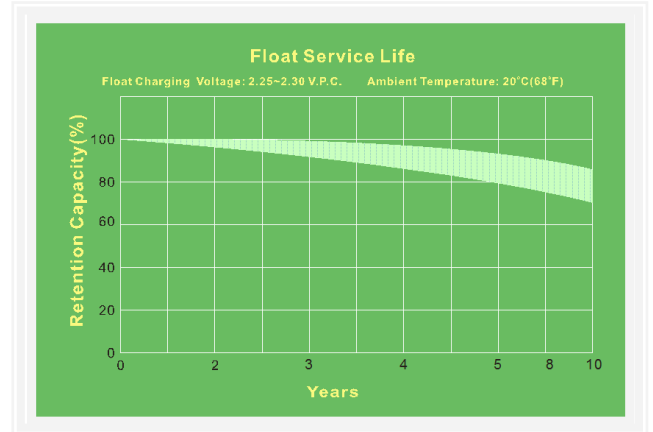
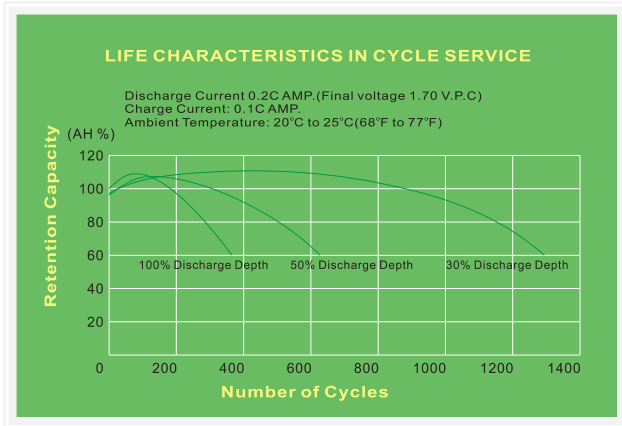
Innovative Features

- ◆ 5~8 years design life @ 20°C(68°F) ambient temperature, 80% remaining capacity;
- ◆ Rechargeable VRLA batteries with an electrolyte retained in a glass mat with a very fine glass fiber structure.
- ◆ High-Compression Absorbed Glass Mat technology (AGM) for over 99% recombine action 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;

Performance Specifications

| | | |
|--|--|-------------|
| Normal Voltage | 12V | |
| Normal Capacity | 20 hour rate (250 mA to 10.5 volts): 5.00 Ah | |
| | 10 hour rate (470 mA to 10.5 volts): 4.70 Ah | |
| | 5 hour rate (900 mA to 10.2 volts): 4.50 Ah | |
| | 1 hour rate (3.80 A to 9.00 volts): 3.80 Ah | |
| Internal Resistance | 40 milliohms | |
| Approximate Weight | 1.65 kg (3.63 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.187 | |

Performance Curves



Discharge Characteristics

| Constant Current Discharge Characteristics - Amperes @ 20°C (68°F) | | | | | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Final VPC | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 120min | 180min | 240min |
| 1.80 | 17.4 | 12.2 | 8.87 | 7.18 | 6.41 | 5.50 | 4.01 | 3.22 | 2.33 | 1.88 | 1.30 | 1.04 |
| 1.75 | 19.3 | 13.3 | 9.50 | 7.60 | 6.63 | 5.64 | 4.13 | 3.28 | 2.39 | 1.91 | 1.32 | 1.07 |
| 1.67 | 21.9 | 14.7 | 10.1 | 7.90 | 6.83 | 5.81 | 4.53 | 3.34 | 2.43 | 1.93 | 1.32 | 1.08 |

| Constant Current Discharge Characteristics - Watts Per Cell @ 20°C (68°F) | | | | | | | | | | | | |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Final VPC | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 120min | 180min | 240min |
| 1.80 | 29.4 | 20.6 | 14.6 | 11.8 | 10.5 | 9.03 | 6.59 | 5.41 | 3.96 | 3.21 | 2.24 | 1.82 |
| 1.75 | 32.7 | 21.8 | 15.5 | 12.4 | 10.8 | 9.19 | 6.73 | 5.49 | 4.04 | 3.25 | 2.27 | 1.84 |
| 1.67 | 37.0 | 23.6 | 17.0 | 13.4 | 11.5 | 9.82 | 7.13 | 5.70 | 4.18 | 3.34 | 2.31 | 1.87 |

