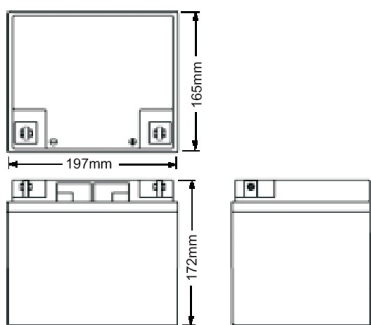




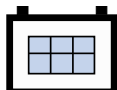
HIGH PERFORMANCE AM 12-40

SEALED RECHARGEABLE LEAD ACID BATTERY

Dimensions and Terminal



Length:197mm	Width:165mm	Height :172mm
Total Height :172mm		



AINO MICRO Range VRLA

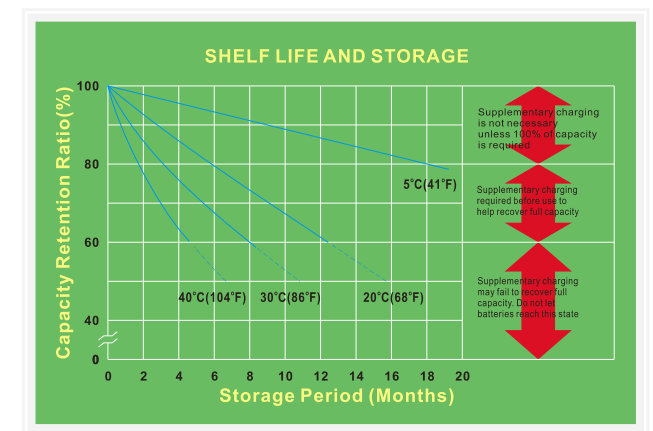
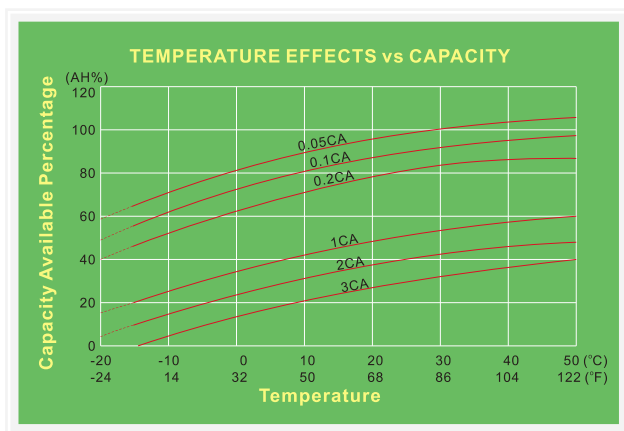
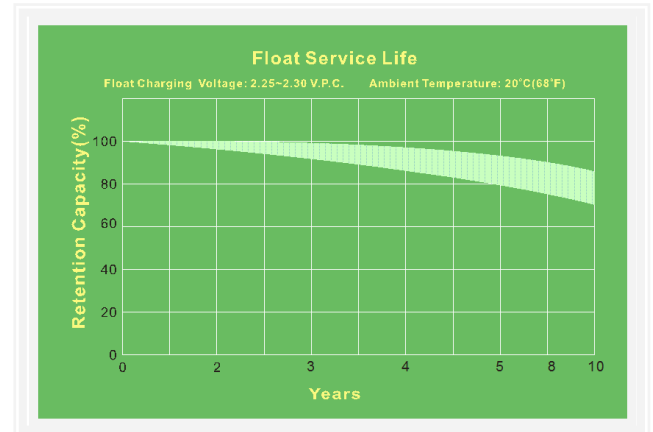
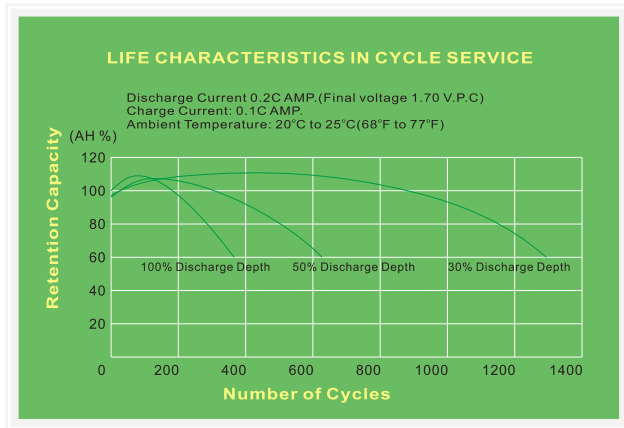
Innovative Features

- ◆ 10 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 (2.00 A to 10.5 volts):	40.0 Ah
	10 hour rate (3.71 A to 10.5 volts):	37.1 Ah
	5 hour rate (6.62 A to 10.2 volts):	33.1 Ah
	1 hour rate (24.0 A to 9.00 volts):	24.0 Ah
Internal Resistance	7.50 milliohms	
Approximate Weight	13.2 kg (29.4 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	F-M6	

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	108	79.5	63.9	53.6	46.1	40.6	29.2	21.4	16.0	13.8	9.09	7.51
1.75	114	83.7	67.3	56.3	48.5	42.7	30.7	22.4	16.8	14.5	9.55	7.91
1.67	128	90.9	71.3	58.6	50.0	43.6	31.4	23.1	17.1	14.7	9.63	7.91

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	213	153	119	99.2	85.9	75.6	54.3	40.6	30.7	26.7	17.8	14.8
1.75	218	156	124	104	89.7	78.9	56.8	42.6	32.2	28.0	18.6	15.5
1.67	251	166	135	113	94.6	82.6	59.4	44.5	32.9	28.7	19.5	15.8

