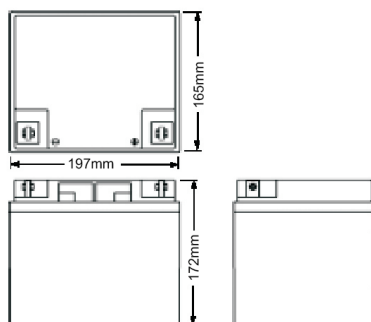




HIGH PERFORMANCE AM 12-44

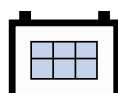
SEALED RECHARGEABLE LEAD ACID BATTERY

Dimensions and Terminal



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

Total Height :172mm



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.

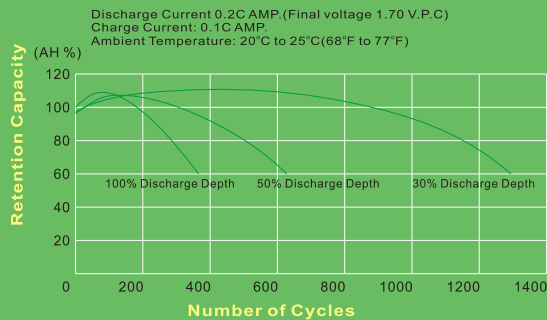
Performance Specifications

Normal Voltage	12V	
Normal Capacity	20 hour rate (2.20 A to 10.5 volts):	44.0 Ah
	10 hour rate (4.07 A to 10.5 volts):	40.7 Ah
	5 hour rate (7.26 A to 10.2 volts):	36.3 Ah
	1 hour rate (26.4 A to 9.00 volts):	26.4 Ah
Internal Resistance	6.00 milliohms	
Approximate Weight	13.8 kg (30.4 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	Flag or Insert	

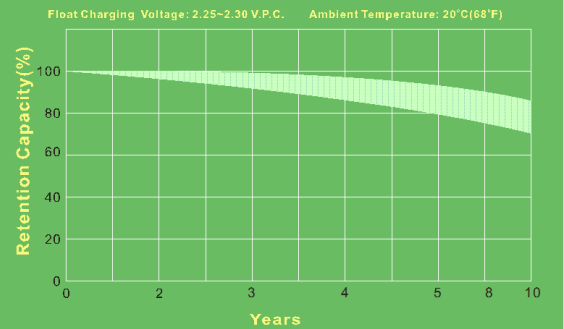
AINO MICRO Range VRLA

EverExceed®
power your applications

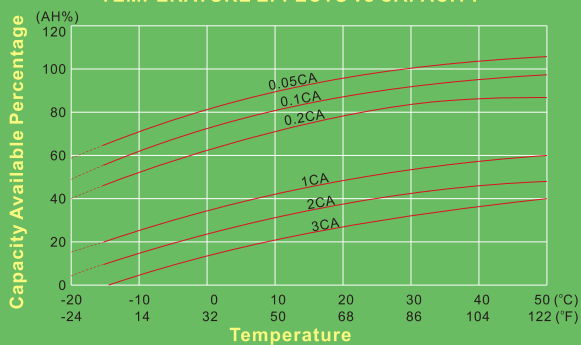
LIFE CHARACTERISTICS IN CYCLE SERVICE



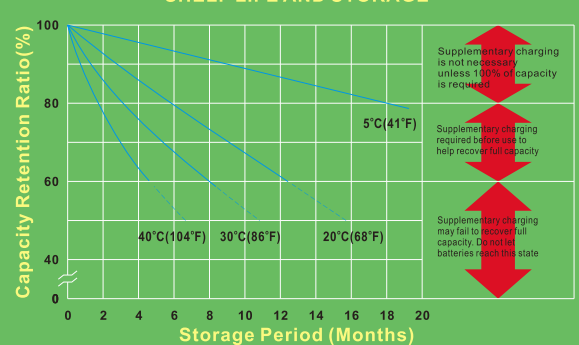
Float Service Life



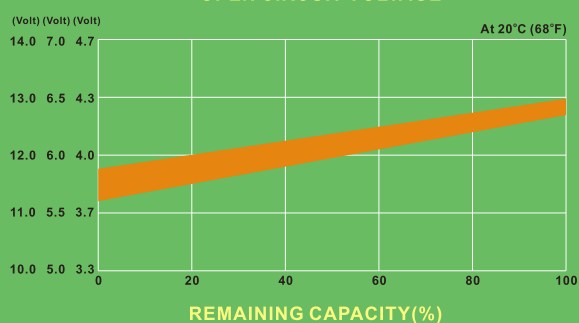
TEMPERATURE EFFECTS vs CAPACITY



SHELF LIFE AND STORAGE



OPEN CIRCUIT VOLTAGE vs REMAINING CAPACITY



DISCHARGE CHARACTERISTICS

