

**Maintenance-Free Rechargeable
Sealed V.R.L.A. Lead Acid Batteries
Capacities: 0.5AH to 65AH**

AINO MICRO tough valve regulated lead acid (VRLA) rechargeable batteries are designed to provide outstanding performance in withstanding overcharge, overdischarge, and resisting vibration and shock. With compact design, these batteries save installation space, while providing full and reliable power. The use of special sealing epoxies, groove case and cover construction, and long-sealing paths for posts and connectors, assures that the VRLA battery will offer exceptional leak resistance, and allows them to be used in any position.

Features

- Non-spillable Valve Regulated Lead Acid (V.R.L.A.) Design.
- Advanced absorbed glass mat technology.
- Sealed construction for operation in any position.
- Wide operating temperature range.
- High discharge rates and low self discharge rates.
- Available in VO Flame Retardant Material.
- High impact resistant plastic case.
- Each cell has a low pressure safety release valve.
- 5 to 7 years design life.



Applications

- Uninterrupted power supplies.
- Security and fire alarm systems.
- Laboratory and test equipment.
- Monitoring equipment.
- Telecom equipment.
- Emergency lighting.
- Power tools.
- Medical equipment.
- Consumer electronics.
- Portable equipment.
- Toys and hobbies.
- Marine instruments.

Specifications

- Voltage: 4V, 6V, 12V nominal
- Plate alloy: lead calcium grid alloy
- Case & cover: ABS
- Electrolyte: dilute sulfuric acid
- Specific gravity: 1.300
- Vent: self sealing – 2psi operation
- Charge voltage @20°C (68°F)
- Cycle service: 2.40~2.45 VPC
- Float service: 2.25~2.30 VPC

No transport restrictions

- Surface transport: Classified as non-hazardous material as relates to DOT-CFR Title 49 part 171-189.
- Water transport: Classified as non-hazardous material as per IMDG amendment 27.
- Air transport: Complies with IATA / ICAO, special provision A67

Construction

Positive plates

Positive plates are plate electrodes of which a grid frame of lead-tin-calcium alloy holds porous lead dioxide as the active material.

Negative plates

Negative plates are plate electrode of which a grid frame of lead-tin-calcium alloy holds spongy lead as the active material.

Separators

The advanced micro-porous Absorbed Glass Mat (AGM) separators retain electrolyte and prevent shorting between positive and negative plates. Separators adopt a non-woven fabric of fine glass fibers which is chemically stable in the diluted sulfuric acid electrolyte. Being highly porous, separators retain adequate electrolyte for the reaction of active materials in the plates.

Safety valve (One way valve)

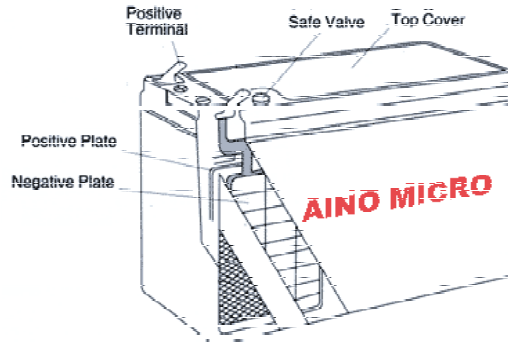
The valve is comprised of a one-way valve made of material such as neoprene. The venting system, which operates at 1 psi to 6 psi, is designed to release excess gas and keep the internal pressure within the optimum range of safety, while it protects the negative plates from contamination by oxygen in the air. All safety valves are 100% visually inspected during production.

Positive and negative terminals

Positive and negative electrode terminals may be Faston Tab Type, Nuts & Bolts Type, Copper Insert Type, or Spring Type, depending on the type of the battery. Sealing of the terminal is achieved by a structure which secures long adhesive-embedded paths and by the adoption of strong epoxy adhesives.

Battery case materials

Materials of the body and cover of the battery case are ABS resins, unless otherwise specified.



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General Specifications

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Model No.	Nominal Voltage (V)	Rated Capacity 20hr Rate (Ah)	Outline Dimensions (mm/inch)				Weight (Approx.) (kg/lb)	Terminal Type
			Length	Width	Height	Total Height		
AM 4-0.5	4	0.5	39/1.54	14/0.55	50/1.97	50/1.97	0.07/0.15	Flat Contacts
AM 4-4.5	4	4.5	48/1.89	48/1.89	102/4.02	108/4.26	0.60/1.32	Faston Tab No. 187
AM 4-9.5	4	9.5	101/3.98	44/1.73	95/3.74	102/4.02	1.28/2.82	Faston Tab No. 187
AM 6-1.3	6	1.3	97/3.82	24/0.95	51/2.01	56/2.21	0.30/0.66	Faston Tab No. 187
AM 6-2.8	6	2.8	66/2.60	33/1.30	98/3.86	103/4.06	0.57/1.26	Faston Tab No. 187
AM 6-3.2A	6	3.2	134/5.28	34/1.34	60/2.36	65/2.56	0.68/1.50	Faston Tab No. 187
AM 6-3.2B	6	3.2	66/2.60	33/1.30	118/4.65	122/4.80	0.70/1.54	Faston Tab No. 187
AM 6-4.5	6	4.5	70/2.76	47/1.85	102/4.02	108/4.26	0.80/1.76	Faston Tab No. 187
AM 6-5sp	6	5.0	67/2.64	67/2.64	98/3.86	113/4.45	0.93/2.05	Spring & Plug
AM 6-5	6	5.0	70/2.76	47/1.85	102/4.02	108/4.26	0.82/1.81	Faston Tab No. 187
AM 6-5hr	6	5.0hr	70/2.76	47/1.85	102/4.02	108/4.26	0.85/1.87	Faston Tab No. 187
AM 6-7.2	6	7.2	151/5.95	34/1.34	94/3.70	98/3.86	1.32/2.91	Faston Tab No. 187
AM 6-8	6	8.0	151/5.95	34/1.34	94/3.70	98/3.86	1.42/3.13	Faston Tab No. 187
AM 6-8.5	6	8.5	98/3.86	56/2.21	118/4.65	118/4.65	1.60/3.53	Faston Tab No. 187
AM 6-10	6	10	151/5.95	51/2.01	94/3.70	98/3.86	2.00/4.41	Faston Tab No. 187
AM 6-12	6	12	151/5.95	50/2.01	94/3.70	98/3.86	2.25/4.96	Faston Tab No. 250
AM 6-14	6	14	151/5.95	50/2.01	94/3.70	98/3.86	2.30/5.07	Faston Tab No. 250
AM 12-0.8	12	0.8	96/3.78	25/0.98	62/2.44	62/2.44	0.35/0.77	Wire Leads & Plug
AM 12-1.3	12	1.3	97/3.82	42/1.65	52/2.05	57/2.26	0.62/1.37	Faston Tab No. 187
AM 12-2.0	12	2.0	150/5.91	20/0.79	90/3.55	90/3.55	0.70/1.54	187 Flat Contacts
AM 12-2.0p	12	2.0	143/5.63	23/0.91	65/2.56	65/2.56	0.58/1.28	Pressure Contacts
AM 12-2.2	12	2.2	178/7.01	34/1.34	60/2.36	66/2.60	0.98/2.16	Faston Tab No. 187
AM 12-2.2p	12	12	182/7.17	24/0.95	61/2.40	61/2.40	0.82/1.81	Pressure Contacts
AM 12-3.3	12	3.3	134/5.28	67/2.64	60/2.36	66/2.60	1.40/3.09	Faston Tab No. 187
AM 12-5	12	5.0	90/3.55	70/2.76	102/4.02	107/4.22	1.83/4.04	Faston Tab No. 187
AM 12-5hr	12	5.0hr	90/3.55	70/2.76	102/4.02	107/4.22	1.90/4.19	Faston Tab No. 187
AM 12-7.2	12	7.2	151/5.95	65/2.56	94/3.70	98/3.86	2.60/5.73	Faston Tab No. 187
AM12-7.2hr	12	7.2hr	151/5.95	65/2.56	94/3.70	98/3.86	2.65/5.84	Faston Tab No. 250
AM 12-10	12	10	151/5.95	98/3.86	94/3.70	100/3.94	4.10/9.04	Faston Tab No. 250
AM 12-12	12	12	151/5.95	98/3.86	94/3.70	100/3.94	4.20/9.26	Faston Tab No. 250
AM12-12hr	12	12hr	151/5.95	98/3.86	94/3.70	100/3.94	4.25/9.37	Faston Tab No. 250
AM 12-15	12	15	181/7.13	76/2.99	167/6.58	167/6.58	5.62/12.39	Bolts & Nuts
AM 12-18	12	18	181/7.13	76/2.99	167/6.58	167/6.58	5.90/13.01	Bolts & Nuts
AM12-18hr	12	18hr	181/7.13	76/2.99	167/6.58	167/6.58	6.00/13.23	Bolts & Nuts
AM 12-20	12	20	181/7.13	76/2.99	167/6.58	167/6.58	6.20/13.67	Bolts & Nuts
AM 12-26A	12	26	166/6.54	175/6.90	126/4.96	126/4.96	9.20/20.29	Bolts & Nuts
AM 12-26B	12	26	166/6.54	126/4.96	175/6.90	180/7.09	9.20/20.29	Bolts & Nuts
AM 12-28	12	28	166/6.54	175/6.90	126/4.96	126/4.96	9.40/20.73	Bolts & Nuts
AM 12-30	12	30	166/6.54	175/6.90	126/4.96	126/4.96	9.90/21.83	Bolts & Nuts

AM 12-38	12	38	197/7.76	165/6.50	172/6.78	172/6.78	13.50/29.78	Bolts & Nuts
AM 12-44	12	44	197/7.76	165/6.50	172/6.78	172/6.78	13.80/30.43	Bolts & Nuts
AM 12-65	12	65	350/13.79	168/6.62	178/7.01	178/7.01	22.30/49.17	Bolts & Nuts

Electrical Specifications

General Specifications									
Model No.	Nominal Voltage (V)	Ampere Hour Capacity @20°C (68°F)					Internal Resistance (milliohms)	Maximum Charge Amps	Maximum Discharge Amps (5 seconds)
		20Hr Rate 1.75VPC	10Hr Rate 1.75VPC	5Hr Rate 1.70VPC	3Hr Rate 1.70VPC	1Hr Rate 1.55VPC			
AM 4-0.5	4	0.50	0.43	0.35	0.26	0.22	17.5	0.125	15
AM 4-4.5	4	4.50	4.00	3.50	3.20	2.70	13	1.125	75
AM 4-9.5	4	9.50	8.80	8.13	6.71	5.70	10	2.375	110
AM 6-1.3	6	1.30	1.20	1.05	0.90	0.72	70	0.325	36
AM 6-2.8	6	2.80	2.60	2.30	2.02	1.70	35	0.70	55
AM 6-3.2A	6	3.20	3.10	2.80	2.50	2.10	30	0.80	70
AM 6-3.2B	6	3.20	3.10	2.80	2.50	2.10	30	0.80	70
AM 6-4.5	6	4.50	4.00	3.50	3.20	2.70	20	1.125	75
AM 6-5sp	6	5.00	4.50	3.90	3.40	3.00	20	1.25	80
AM 6-5	6	5.00	4.50	3.90	3.60	3.00	18	1.25	85
AM 6-5hr	6	5.0hr	5.25	4.65	4.20	3.96	16	1.25	85
AM 6-7.2	6	7.20	6.60	5.95	5.25	4.30	15	1.8	105
AM 6-8	6	8.00	7.50	6.50	5.85	4.60	15	2.0	110
AM 6-8.5	6	8.50	8.00	6.90	6.20	4.90	15	2.125	115
AM 6-10	6	10.0	9.60	8.80	8.24	7.50	10	2.5	120
AM 6-12	6	12.0	11.5	10.5	9.60	9.00	10	3.0	180
AM 6-14	6	14.0	13.5	12.3	11.4	10.5	10	3.5	210
AM 12-0.8	12	0.80	0.72	0.65	0.56	0.48	150	0.2	22
AM 12-1.3	12	1.30	1.20	1.10	1.05	0.90	100	0.325	36
AM 12-2.0	12	2.00	1.90	1.70	1.52	1.30	80	0.5	55
AM 12-2.0p	12	2.00	1.90	1.70	1.52	1.30	80	0.5	55
AM 12-2.2	12	2.20	2.00	1.80	1.65	1.40	70	0.55	60
AM 12-2.2p	12	2.20	2.10	1.85	1.73	1.40	70	0.55	55
AM 12-3.3	12	3.30	3.20	2.75	2.55	2.20	60	0.825	60
AM 12-5	12	5.00	4.70	4.50	4.05	3.80	40	1.25	75
AM 12-5hr	12	5.0hr	5.25	4.65	4.20	3.96	35	1.25	75
AM 12-7.2	12	7.20	6.60	5.95	5.25	4.30	25	1.8	105
AM12-7.2hr	12	7.20hr	7.48	6.61	6.04	5.26	22	1.8	105
AM 12-10	12	10.0	9.60	8.80	8.24	7.50	20	2.5	120
AM 12-12	12	12.0	11.5	10.5	9.60	9.00	20	3.0	180
AM12-12hr	12	12.0hr	12.5	11.2	10.6	8.78	18	3.0	180
AM 12-15	12	15.0	14.2	12.5	11.3	10.0	16	3.75	220

AM 12-18	12	18.0	17.0	15.0	14.3	12.0	14	4.5	250
AM12-18hr	12	18.0hr	18.7	16.5	16.1	13.2	12	4.5	250
AM 12-20	12	20.0	18.9	16.8	16.3	13.5	10	5.0	260
AM 12-26A	12	26.0	24.5	22.5	20.7	16.0	10	6.5	290
AM 12-26B	12	26.0	24.5	22.5	20.7	16.0	10	6.5	290
AM 12-28	12	28.0	26.4	24.2	21.9	17.2	9	7.0	300
AM 12-30	12	30.0	28.5	26.0	22.8	18.5	9	7.5	320
AM 12-38	12	38.0	35.2	31.4	27.6	22.8	8	9.5	480
AM 12-44	12	44.0	40.7	36.3	32.9	26.4	6	11.0	500
AM 12-65	12	65.0	60.5	53.6	46.0	39.0	5.5	16.25	800

AINO MICRO Range Discharge Amps & Watts

Discharge Data Amps @20°C (68°F)

Model No.	Final VPC	Discharge Data Time in minutes											
		5	10	15	20	25	30	45	60	90	120	180	240
AM 4-0.5	1.80	1.81	1.18	0.93	0.74	0.65	0.55	0.41	0.31	0.23	0.19	0.13	0.11
	1.75	1.90	1.24	0.98	0.79	0.69	0.58	0.43	0.33	0.24	0.20	0.14	0.11
	1.67	2.14	1.34	1.03	0.81	0.71	0.59	0.44	0.34	0.24	0.21	0.14	0.11
AM 4-4.5	1.80	15.7	11.0	7.98	6.46	5.77	4.95	3.61	2.90	2.10	1.69	1.17	0.94
	1.75	17.4	12.0	8.55	6.84	5.97	5.08	3.72	2.95	2.15	1.72	1.19	0.96
	1.67	19.7	13.2	9.06	7.11	6.15	5.23	4.08	3.01	2.19	1.74	1.19	0.96
AM 4-9.5	1.80	29.8	21.1	15.9	12.6	10.7	10.2	8.10	6.39	4.36	3.48	2.35	2.05
	1.75	33.2	22.7	17.1	13.1	12.3	11.4	8.28	6.48	4.46	3.55	2.38	2.10
	1.67	37.5	24.7	18.1	13.6	12.6	11.6	8.46	6.61	4.50	3.59	2.39	2.10
AM 6-1.3	1.80	4.69	3.05	2.40	1.94	1.69	1.43	1.02	0.82	0.59	0.49	0.33	0.27
	1.75	4.94	3.21	2.58	2.04	1.78	1.51	1.11	0.86	0.62	0.52	0.35	0.28
	1.67	5.58	3.50	2.60	2.12	1.83	1.54	1.13	0.88	0.63	0.53	0.35	0.28
AM 6-2.8	1.80	9.45	6.41	4.98	4.01	3.47	2.98	2.21	1.75	1.28	1.03	0.72	0.57
	1.75	10.6	6.97	5.34	4.24	3.58	3.06	2.27	1.79	1.31	1.05	0.74	0.58
	1.67	11.9	7.60	5.65	4.41	3.69	3.15	2.32	1.82	1.34	1.07	0.74	0.58
AM6-3.2A	1.80	10.8	7.32	5.69	4.58	3.96	3.41	2.52	2.00	1.46	1.18	0.82	0.65
	1.75	12.1	7.97	6.10	4.85	4.09	3.50	2.59	2.04	1.50	1.20	0.84	0.66
	1.67	13.6	8.69	6.46	5.04	4.22	3.60	2.65	2.08	1.53	1.22	0.85	0.66
AM 6-3.2B	1.80	10.8	7.32	5.69	4.58	3.96	3.41	2.52	2.00	1.46	1.18	0.82	0.65
	1.75	12.1	7.97	6.10	4.85	4.09	3.50	2.59	2.04	1.50	1.20	0.84	0.66
	1.67	13.6	8.69	6.46	5.04	4.22	3.60	2.65	2.08	1.53	1.22	0.85	0.66
AM 6-4.5	1.80	15.7	11.0	7.98	6.46	5.77	4.95	3.61	2.90	2.10	1.69	1.17	0.94
	1.75	17.4	12.0	8.55	6.84	5.97	5.08	3.72	2.95	2.15	1.72	1.19	0.96
	1.67	19.7	13.2	9.06	7.11	6.15	5.23	4.08	3.01	2.19	1.74	1.19	0.96
AM 6-5sp	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	1.07
AM 6-5	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	1.07
AM 6-5hr	1.80	21.5	14.4	10.6	8.54	7.01	6.48	4.95	3.58	2.50	1.95	1.35	1.08
	1.75	23.5	15.3	11.0	8.75	7.36	6.94	5.25	3.69	2.61	1.97	1.40	1.09
	1.67	26.5	16.7	11.7	9.10	7.56	7.08	5.46	3.78	2.82	2.01	1.43	1.10
AM 6-7.2	1.80	22.6	16.0	12.0	9.58	8.14	7.70	6.14	4.85	3.30	2.64	1.78	1.56
	1.75	25.1	17.2	13.0	9.94	8.57	8.12	6.28	4.91	3.38	2.69	1.81	1.59
	1.67	28.4	18.7	13.7	10.3	8.78	8.50	6.41	5.01	3.41	2.72	1.81	1.59
AM 6-8	1.80	25.1	17.8	13.4	10.6	9.04	8.56	6.82	5.38	3.67	2.93	1.98	1.73
	1.75	27.9	19.1	14.4	11.0	9.60	9.20	6.98	5.48	3.75	2.99	2.01	1.77
	1.67	31.6	20.8	15.2	11.4	9.86	9.36	7.12	5.57	3.79	3.02	2.02	1.77
AM 6-8.5	1.80	26.7	18.9	14.2	11.3	9.61	9.10	7.25	5.72	3.90	3.11	2.10	1.84
	1.75	29.7	20.3	15.3	11.7	10.2	9.80	7.41	5.80	3.99	3.18	2.13	1.88
	1.67	33.6	22.1	16.2	12.2	10.5	10.1	7.57	5.92	4.03	3.21	2.14	1.88
AM 6-10	1.80	31.4	22.2	16.7	13.3	11.3	10.7	8.53	6.73	4.59	3.66	2.47	2.16
	1.75	34.9	23.9	18.0	13.8	12.5	12.0	8.72	6.82	4.69	3.74	2.51	2.21
	1.67	39.5	26.0	19.0	14.3	12.9	12.3	8.90	6.96	4.74	3.78	2.52	2.21
AM 6-12	1.80	37.8	26.7	20.2	16.1	15.0	14.1	10.3	8.11	5.53	4.41	2.98	2.60
	1.75	42.1	28.7	21.6	16.6	15.5	14.4	10.5	8.22	5.63	4.50	3.03	2.66
	1.67	47.6	31.3	22.9	17.3	16.6	14.7	10.7	8.39	5.71	4.55	3.05	2.66
AM 6-14	1.80	44.1	31.2	23.6	18.8	17.2	16.5	12.0	9.46	6.45	5.15	3.48	3.03
	1.75	49.1	33.5	25.2	19.4	17.7	16.8	12.3	9.59	6.57	5.25	3.54	3.10
	1.67	55.5	36.5	26.7	20.2	18.3	17.2	12.5	9.79	6.66	5.31	3.56	3.10
AM 12-0.8	1.80	2.89	1.88	1.48	1.19	1.04	0.88	0.65	0.50	0.36	0.30	0.20	0.17
	1.75	3.04	1.98	1.56	1.26	1.10	0.93	0.68	0.53	0.38	0.32	0.22	0.17
	1.67	3.43	2.15	1.65	1.30	1.13	0.95	0.70	0.54	0.39	0.33	0.22	0.17
AM 12-1.3	1.80	4.69	3.05	2.40	1.94	1.69	1.43	1.05	0.82	0.59	0.49	0.33	0.27
	1.75	4.94	3.21	2.53	2.04	1.78	1.51	1.11	0.86	0.62	0.52	0.35	0.28
	1.67	5.58	3.50	2.68	2.12	1.83	1.54	1.13	0.88	0.63	0.53	0.35	0.28
AM 12-2.0	1.80	6.75	4.57	3.56	2.86	2.48	2.13	1.57	1.25	0.91	0.74	0.51	0.41
	1.75	7.57	4.98	3.81	3.03	2.56	2.19	1.62	1.28	0.94	0.75	0.52	0.41
	1.67	8.50	5.43	4.03	3.15	2.63	2.25	1.65	1.30	0.96	0.77	0.53	0.41
AM 12-2.0p	1.80	6.75	4.57	3.56	2.86	2.48	2.13	1.57	1.25	0.91	0.74	0.51	0.41
	1.75	7.57	4.98	3.81	3.03	2.56	2.19	1.62	1.28	0.94	0.75	0.52	0.41
	1.67	8.50	5.43	4.03	3.15	2.63	2.25	1.65	1.30	0.96	0.77	0.53	0.41
AM 12-2.2p	1.80	7.42	5.03	3.91	3.15	2.73	2.34	1.73	1.38	1.00	0.81	0.56	0.45
	1.75	8.32	5.48	4.19	3.34	2.81	2.41	1.78	1.41	1.03	0.82	0.57	0.45
	1.67	9.35	5.98	4.44	3.46	2.90	2.48	1.82	1.43	1.05	0.84	0.58	0.45
AM12-2.2	1.80	7.42	5.03	3.91	3.15	2.73	2.34	1.73	1.38	1.00	0.81	0.56	0.45
	1.75	8.32	5.48	4.19	3.34	2.81	2.41	1.78	1.41	1.03	0.82	0.57	0.45
	1.67	9.35	5.98	4.44	3.46	2.90	2.48	1.82	1.43	1.05	0.84	0.58	0.45
AM12-3.3	1.80	11.4	7.71	5.99	4.82	4.17	3.59	2.65	2.11	1.54	1.24	0.86	0.68
	1.75	12.7	8.45	6.42	5.10	4.31	3.68	2.73	2.15	1.58	1.26	0.88	0.69
	1.67	14.3	9.26	6.80	5.31	4.44	3.79	2.80	2.19	1.61	1.28	0.88	0.69
AM12-5	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	1.07
AM 12-5hr	1.80	21.5	14.4	10.6	8.54	7.01	6.48	4.95	3.58	2.50	1.95	1.35	1.08

	1.75	23.5	15.3	11.0	8.75	7.36	6.94	5.25	3.69	2.61	1.97	1.40	1.09
	1.67	26.5	16.7	11.7	9.10	7.56	7.08	5.46	3.78	2.82	2.01	1.43	1.10
AM 12-7.2	1.80	22.6	16.0	12.0	9.58	8.14	7.70	6.14	4.85	3.30	2.64	1.78	1.56
	1.75	25.1	17.2	13.0	9.94	8.57	8.12	6.28	4.91	3.38	2.69	1.81	1.59
	1.67	28.4	18.7	13.7	10.3	8.78	8.50	6.41	5.01	3.41	2.72	1.81	1.59
AM 12-7.2hr	1.80	31.0	20.7	15.2	12.3	10.1	9.33	5.98	5.16	3.38	2.68	2.03	1.53
	1.75	33.8	22.1	15.8	12.6	10.6	10.0	6.26	5.32	3.47	2.77	2.06	1.57
	1.67	38.2	24.1	16.8	13.1	10.9	10.2	6.38	5.44	3.51	2.80	2.09	1.57
AM 12-10	1.80	31.5	22.3	16.8	13.4	11.3	10.8	8.58	6.76	4.61	3.68	2.48	2.17
	1.75	35.1	24.8	18.0	13.8	12.5	12.0	8.75	6.85	4.71	3.75	2.53	2.22
	1.67	39.7	26.1	19.1	14.4	12.3	12.3	8.92	6.99	4.76	3.79	2.52	2.21
AM 12-12	1.80	37.8	26.7	20.2	16.1	15.0	14.1	10.3	8.11	5.53	4.41	2.98	2.60
	1.75	42.1	28.7	21.6	16.6	15.5	14.4	10.5	8.22	5.63	4.50	3.03	2.66
	1.67	47.6	31.3	22.9	17.3	16.6	14.7	10.7	8.39	5.71	4.55	3.05	2.66
AM12-12hr	1.80	41.0	28.9	21.8	17.4	14.6	12.1	11.0	8.52	5.70	4.53	3.05	2.65
	1.75	45.7	32.2	23.3	17.9	15.4	12.6	11.2	8.63	5.83	4.62	3.11	2.71
	1.67	51.6	33.9	24.7	18.6	15.8	12.9	11.4	8.81	5.89	4.67	3.12	2.71
AM 12-15	1.80	45.7	33.2	26.1	21.7	17.6	14.5	12.9	9.67	7.30	5.96	3.64	2.99
	1.75	51.2	34.9	28.8	23.2	18.4	15.2	13.8	10.4	7.43	6.33	3.73	3.08
	1.67	58.3	38.1	30.6	24.1	18.9	15.5	14.1	10.7	7.58	6.40	3.74	3.08
AM12-18	1.80	54.8	39.8	31.3	26.0	21.1	17.4	15.5	11.6	8.76	7.15	4.37	3.59
	1.75	61.4	41.9	34.6	27.8	22.1	18.2	16.6	12.5	8.91	7.60	4.47	3.69
	1.67	70.0	45.7	36.7	28.9	22.7	18.6	16.9	12.8	9.09	7.68	4.49	3.69
AM12-18hr	1.80	59.5	43.1	33.8	28.0	22.7	18.7	16.5	12.2	9.03	7.34	4.48	3.66
	1.75	66.6	45.3	37.4	30.0	23.8	19.5	17.7	13.1	9.19	7.80	4.58	3.76
	1.67	76.0	49.4	39.6	31.2	24.4	19.9	18.0	13.4	9.37	7.88	4.60	3.76
AM 12-20	1.80	60.9	44.2	34.8	28.9	23.4	19.3	17.2	12.9	9.73	7.94	4.86	3.99
	1.75	68.2	46.6	38.4	30.9	24.6	20.2	18.4	13.9	9.90	8.44	4.97	4.10
	1.67	77.8	50.8	40.8	32.1	25.2	20.7	18.8	14.2	10.1	8.53	4.99	4.10
AM 12-26A	1.80	75.4	54.7	43.8	38.8	33.1	27.2	18.4	15.2	10.4	9.72	6.53	4.81
	1.75	83.9	59.6	46.9	41.0	34.2	27.9	19.0	15.5	10.7	9.89	6.66	4.90
	1.67	94.6	65.0	49.7	42.7	35.3	28.7	19.4	15.8	10.8	10.1	6.67	4.90
AM 12-26B	1.80	75.4	54.7	43.8	38.8	33.1	27.2	18.4	15.2	10.4	9.72	6.53	4.81
	1.75	83.9	59.6	46.9	41.0	34.2	27.9	19.0	15.5	10.7	9.89	6.66	4.90
	1.67	94.6	65.0	49.7	42.7	35.3	28.7	19.4	15.8	10.8	10.1	6.67	4.90
AM 12-28	1.80	88.0	63.8	51.1	45.3	38.6	31.7	21.5	17.8	12.1	11.3	7.62	5.61
	1.75	97.9	69.5	54.7	47.9	39.9	32.5	22.2	18.1	12.4	11.5	7.77	5.72
	1.67	110	75.9	58.0	49.8	41.1	33.5	22.6	18.5	12.6	11.7	7.78	5.72
AM 12-30	1.80	94.3	68.4	54.7	48.5	41.4	34.0	23.0	19.0	13.0	12.1	8.16	6.01
	1.75	105	74.5	58.6	51.3	42.8	34.8	23.8	19.4	13.3	12.4	8.32	6.13
	1.67	118	81.3	62.1	53.3	44.1	35.9	24.2	19.8	13.5	12.6	8.33	6.13
AM 12-38	1.80	103	75.5	60.7	50.9	43.8	38.6	27.7	20.3	15.2	13.1	8.64	7.13
	1.75	108	79.5	63.9	53.5	46.1	40.6	29.2	21.3	16.0	13.8	9.07	7.51
	1.67	122	86.4	67.7	55.7	47.5	41.4	29.8	21.9	16.2	14.0	9.15	7.51
AM 12-44	1.80	119	87.4	70.3	58.9	50.7	44.7	32.1	23.5	17.6	15.2	10.0	8.26
	1.75	125	92.0	74.0	62.0	53.4	47.0	33.8	24.7	18.5	16.0	10.5	8.70
	1.67	141	100	78.4	64.5	55.0	47.9	34.5	25.3	18.7	16.2	10.6	8.70

AM 12-65	1.80	138	109	96.4	77.8	67.7	57.5	41.4	34.9	25.5	22.0	14.5	12.0
	1.75	154	123	105	81.8	71.3	60.8	43.7	37.1	26.6	23.0	15.2	12.5
	1.67	170	134	111	84.9	72.0	61.2	44.0	37.9	27.3	23.6	15.4	12.7

Actual battery performance data may be +/-5% of figures shown above

Discharge Data Watts @20°C (68°F)

Model No.	Final VPC	Discharge Data Time in minutes											
		5	10	15	20	25	30	45	60	90	120	180	240
AM 4-0.5	1.80	3.39	2.20	1.69	1.36	1.19	1.01	0.74	0.59	0.43	0.36	0.24	0.20
	1.75	3.56	2.26	1.76	1.42	1.22	1.05	0.76	0.61	0.44	0.38	0.25	0.21
	1.67	4.04	2.44	1.94	1.53	1.32	1.11	0.81	0.64	0.46	0.39	0.26	0.21
AM 4-4.5	1.80	26.5	18.5	13.1	10.6	9.45	8.13	5.93	4.87	3.56	2.89	2.02	1.64
	1.75	29.4	19.6	14.0	11.2	9.72	8.27	6.06	4.94	3.64	2.93	2.04	1.66
	1.67	33.3	21.2	15.3	12.1	10.4	8.84	6.42	5.13	3.76	3.01	2.08	1.68
AM 4-9.5	1.80	56.1	39.7	30.0	23.8	20.2	17.8	15.3	12.2	8.39	6.71	4.57	4.02
	1.75	60.9	41.6	31.3	24.0	20.7	18.4	15.4	12.4	8.47	6.76	4.60	4.07
	1.67	68.7	44.9	32.9	24.8	21.1	18.7	15.6	12.7	8.63	6.81	4.63	4.09
AM 6-1.3	1.80	8.80	5.72	4.50	3.62	3.17	2.68	1.97	1.55	1.13	0.94	0.64	0.53
	1.75	9.02	5.86	4.62	3.72	3.25	2.76	2.03	1.60	1.17	0.99	0.66	0.54
	1.67	10.1	6.34	4.85	3.84	3.31	2.79	2.05	1.64	1.18	1.00	0.67	0.54
AM 6-2.8	1.80	17.8	12.0	9.36	7.52	6.51	5.60	4.14	3.33	2.44	1.98	1.38	1.10
	1.75	19.3	12.8	9.71	7.74	6.54	5.69	4.16	3.35	2.48	1.99	1.40	1.11
	1.67	21.5	13.7	10.2	7.99	6.68	5.71	4.20	3.39	2.52	2.01	1.41	1.11
AM 6-3.2A	1.80	20.3	13.7	10.7	8.59	7.44	6.40	4.73	3.80	2.79	2.26	1.58	1.26
	1.75	22.0	14.6	11.1	8.84	7.47	6.50	4.75	3.82	2.83	2.27	1.60	1.27
	1.67	24.6	15.7	11.7	9.13	7.63	6.52	4.80	3.87	2.88	2.30	1.60	1.27
AM 6-3.2B	1.80	20.3	13.7	10.7	8.59	7.44	6.40	4.73	3.80	2.79	2.26	1.58	1.26
	1.75	22.0	14.6	11.1	8.84	7.47	6.50	4.75	3.82	2.83	2.27	1.60	1.27
	1.67	24.6	15.7	11.7	9.13	7.63	6.52	4.80	3.87	2.88	2.30	1.60	1.27
AM 6-4.5	1.80	26.5	18.5	13.1	10.6	9.45	8.13	5.93	4.87	3.56	2.89	2.02	1.64
	1.75	29.4	19.6	14.0	11.2	9.72	8.27	6.06	4.94	3.64	2.93	2.04	1.66
	1.67	33.3	21.2	15.3	12.1	10.4	8.84	6.42	5.13	3.76	3.01	2.08	1.68
AM 6-5sp	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
AM 6-5	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
AM 6-5hr	1.80	40.3	27.0	19.3	15.2	12.6	11.7	7.57	6.65	4.42	3.53	2.71	2.06
	1.75	44.1	28.1	19.9	15.6	12.9	12.4	7.85	6.84	4.58	3.64	2.72	2.09
	1.67	49.8	30.3	21.9	16.8	13.8	13.1	8.33	7.15	4.65	3.74	2.82	2.12
AM 6-7.2	1.80	44.2	29.7	20.6	16.6	13.7	12.7	8.16	7.33	4.93	3.96	3.04	2.32
	1.75	48.2	30.9	21.2	17.1	14.2	13.5	8.48	7.54	5.06	4.08	3.06	2.35
	1.67	49.8	33.4	23.3	18.5	15.1	14.3	8.96	7.84	5.19	4.19	3.17	2.38
AM 6-8	1.80	49.1	33.0	22.9	18.5	15.2	14.4	9.07	8.14	5.48	4.40	3.38	2.58
	1.75	53.6	34.3	23.6	19.0	15.7	15.0	9.42	8.37	5.63	4.53	3.40	2.61

	1.67	55.3	37.1	25.9	20.5	16.8	15.9	9.96	8.71	5.77	4.66	3.52	2.65
AM 6-8.5	1.80	52.2	35.0	24.4	19.6	16.2	15.0	9.63	8.65	5.82	4.68	3.59	2.74
	1.75	56.9	36.5	25.0	20.2	16.7	16.0	10.0	8.90	5.98	4.82	3.61	2.78
	1.67	58.8	39.4	27.5	21.8	17.9	16.9	10.6	9.26	6.13	4.95	3.74	2.81
AM 6-10	1.80	59.1	41.8	31.6	25.1	21.3	18.7	16.1	12.8	8.83	7.06	4.81	4.23
	1.75	64.1	43.8	32.9	25.3	21.8	19.4	16.2	12.9	8.92	7.12	4.84	4.28
	1.67	72.3	47.3	34.6	26.1	22.2	19.7	16.3	13.1	9.08	7.17	4.87	4.31
AM 6-12	1.80	70.9	50.2	37.9	30.1	25.6	22.4	19.3	15.4	10.6	8.47	5.77	5.07
	1.75	76.9	52.5	39.5	30.3	26.1	23.3	19.4	15.5	10.7	8.54	5.81	5.14
	1.67	86.8	56.7	41.5	31.3	26.6	23.6	19.6	15.7	10.9	8.60	5.84	5.17
AM 6-14	1.80	82.7	58.6	44.2	35.1	29.9	26.1	22.5	18.0	12.4	9.88	6.73	5.92
	1.75	89.7	61.3	46.1	35.4	30.5	27.2	22.6	18.1	12.5	9.96	6.78	6.00
	1.67	101	66.2	48.4	36.5	31.0	27.5	22.9	18.3	12.7	10.0	6.81	6.03
AM 12-0.8	1.80	5.42	3.52	2.70	2.18	1.90	1.61	1.18	0.94	0.68	0.57	0.39	0.32
	1.75	5.70	3.61	2.82	2.27	1.91	1.62	1.21	0.98	0.71	0.60	0.40	0.33
	1.67	6.46	3.90	3.10	2.45	2.11	1.78	1.30	1.03	0.74	0.63	0.42	0.34
AM 12-1.3	1.80	8.80	5.72	4.38	3.54	3.08	2.61	1.92	1.53	1.11	0.93	0.63	0.52
	1.75	9.27	5.86	4.58	3.69	3.10	2.64	1.97	1.60	1.16	0.97	0.64	0.54
	1.67	10.5	6.34	5.03	3.98	3.43	2.89	2.12	1.67	1.20	1.02	0.68	0.55
AM 12-2.0	1.80	14.6	10.0	6.92	5.35	4.63	3.92	2.84	2.35	1.70	1.33	0.95	0.77
	1.75	15.4	10.2	7.23	5.59	4.84	4.08	2.96	2.47	1.79	1.39	0.99	0.80
	1.67	17.5	11.0	7.94	6.04	5.17	4.32	3.14	2.56	1.84	1.43	1.00	0.82
AM 12-2.0p	1.80	14.6	10.0	6.92	5.35	4.63	3.92	2.84	2.35	1.70	1.33	0.95	0.77
	1.75	15.4	10.2	7.23	5.59	4.84	4.08	2.96	2.47	1.79	1.39	0.99	0.80
	1.67	17.5	11.0	7.94	6.04	5.17	4.32	3.14	2.56	1.84	1.43	1.00	0.82
AM 12-2.2	1.80	16.1	11.0	7.61	5.89	5.09	4.31	3.12	2.59	1.87	1.46	1.04	0.85
	1.75	16.9	11.2	7.95	6.15	5.32	4.49	3.26	2.72	1.97	1.53	1.09	0.88
	1.67	19.2	12.1	8.73	6.64	5.69	4.75	3.45	2.82	2.02	1.57	1.10	0.90
AM 12-2.2p	1.80	16.1	11.0	7.61	5.89	5.09	4.31	3.12	2.59	1.87	1.46	1.04	0.85
	1.75	16.9	11.2	7.95	6.15	5.32	4.49	3.26	2.72	1.97	1.53	1.09	0.88
	1.67	19.2	12.1	8.73	6.64	5.69	4.75	3.45	2.82	2.02	1.57	1.10	0.90
AM 12-3.3	1.80	21.4	14.5	10.9	8.80	7.61	6.55	4.84	3.94	2.90	2.35	1.56	1.31
	1.75	23.8	15.3	11.6	9.23	7.80	6.66	4.94	4.00	2.97	2.38	1.68	1.32
	1.67	26.9	16.6	12.8	9.97	8.33	7.11	5.24	4.15	3.07	2.46	1.70	1.35
AM 12-5	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
AM 12-5hr	1.80	40.3	27.0	19.3	15.2	12.6	11.7	7.57	6.65	4.42	3.53	2.71	2.06
	1.75	44.1	28.1	19.9	15.6	12.9	12.4	7.85	6.84	4.58	3.64	2.72	2.09
	1.67	49.8	30.3	21.9	16.8	13.8	13.1	8.33	7.15	4.65	3.74	2.82	2.12
AM 12-7.2	1.80	44.2	29.7	20.6	16.6	13.7	12.7	8.16	7.33	4.93	3.96	3.04	2.32
	1.75	48.2	30.9	21.2	17.1	14.2	13.5	8.48	7.54	5.06	4.08	3.06	2.35
	1.67	49.8	33.4	23.3	18.5	15.1	14.3	8.96	7.84	5.19	4.19	3.17	2.38
AM 12-7.2hr	1.80	58.1	38.9	27.8	21.9	18.1	16.8	10.9	9.58	6.36	5.09	3.90	2.96
	1.75	63.5	40.4	28.7	22.5	18.6	17.8	11.3	9.85	6.59	5.24	3.92	3.01
	1.67	71.7	43.7	31.5	24.2	19.8	18.9	12.0	10.3	6.70	5.38	4.06	3.05
AM 12-10	1.80	59.1	41.8	31.6	25.1	21.3	18.7	16.1	12.8	8.83	7.06	4.81	4.23

	1.75	64.1	43.8	32.9	25.3	21.8	19.4	16.2	12.9	8.92	7.12	4.84	4.28
	1.67	72.3	47.3	34.6	26.1	22.2	19.7	16.3	13.1	9.08	7.17	4.87	4.31
AM 12-12	1.80	70.9	50.2	36.8	29.3	24.9	22.7	18.8	15.1	10.4	8.37	5.72	5.02
	1.75	79.0	52.5	39.2	30.1	25.9	23.1	19.0	15.3	10.6	8.51	5.77	5.11
	1.67	89.4	56.7	43.1	32.4	27.6	24.0	20.1	15.9	10.9	8.74	5.87	5.19
AM 12-12hr	1.80	74.7	52.7	39.7	30.9	26.3	23.9	20.1	15.8	10.7	8.60	5.86	5.13
	1.75	83.2	55.0	42.5	31.6	27.2	24.4	20.3	16.0	11.0	8.75	5.91	5.23
	1.67	94.1	59.4	46.6	34.0	28.9	25.3	21.5	16.6	11.2	8.98	6.02	5.31
AM 12-15	1.80	85.0	60.7	47.6	38.6	32.0	28.9	23.6	18.1	13.0	11.3	6.92	5.78
	1.75	95.8	63.7	52.2	41.9	33.3	30.3	25.0	19.4	14.0	12.0	7.10	5.90
	1.67	108	68.8	57.3	45.2	35.5	32.4	26.4	20.2	14.5	12.3	7.22	6.00
AM 12-18	1.80	102	72.8	57.1	46.3	38.4	34.7	28.3	21.7	15.6	13.6	8.30	6.94
	1.75	115	76.4	62.6	50.3	39.9	36.4	30.0	23.3	16.8	14.4	8.52	7.08
	1.67	130	82.6	68.8	54.2	42.6	38.9	31.7	24.2	17.4	14.8	8.66	7.20
AM 12-18hr	1.80	107	76.4	61.6	48.8	40.6	36.5	29.7	22.7	16.1	14.0	8.50	7.09
	1.75	121	80.0	67.9	52.8	41.9	38.4	31.5	24.4	17.4	14.8	8.72	7.24
	1.67	137	86.5	74.4	56.9	44.6	41.0	33.3	25.3	17.9	15.2	8.88	7.37
AM 12-20	1.80	113	80.9	63.4	51.4	42.7	38.6	31.4	24.1	17.3	15.1	9.22	7.71
	1.75	128	84.9	69.6	55.9	44.3	40.4	33.3	25.9	18.7	16.0	9.47	7.87
	1.67	144	91.8	76.4	60.2	47.3	43.2	35.2	26.9	19.3	16.4	9.62	8.00
AM 12-26A	1.80	145	105	81.7	72.4	61.8	50.7	34.4	29.1	20.0	18.9	12.8	9.50
	1.75	161	112	86.8	76.0	63.4	51.6	35.2	30.4	20.4	19.2	12.9	9.59
	1.67	182	121	95.0	82.0	67.7	55.1	37.2	31.6	21.2	19.7	13.2	9.77
AM 12-26B	1.80	145	105	81.7	72.4	61.8	50.7	34.4	29.1	20.0	18.9	12.8	9.50
	1.75	161	112	86.8	76.0	63.4	51.6	35.2	30.4	20.4	19.2	12.9	9.59
	1.67	182	121	95.0	82.0	67.7	55.1	37.2	31.6	21.2	19.7	13.2	9.77
AM 12-28	1.80	169	122	95.3	84.5	72.1	59.1	40.1	34.0	23.3	22.1	15.0	11.1
	1.75	188	130	101	88.7	73.9	60.2	41.1	35.4	23.8	22.4	15.1	11.2
	1.67	212	141	111	95.7	79.0	64.3	43.4	36.9	24.7	23.0	15.4	11.4
AM 12-30	1.80	181	131	102	90.5	77.2	63.4	43.0	36.4	25.0	23.7	16.1	11.9
	1.75	201	140	108	95.0	79.2	64.5	44.0	38.0	25.5	24.0	16.2	12.0
	1.67	228	151	119	103	84.6	68.9	46.5	39.5	26.5	24.6	16.5	12.2
AM 12-38	1.80	202	145	113	94.2	81.6	71.8	51.6	38.6	29.2	25.4	16.9	14.1
	1.75	207	148	118	98.6	85.2	75.0	54.0	40.5	30.6	26.6	17.7	14.7
	1.67	238	158	128	107	89.9	78.5	56.4	42.3	31.3	27.3	18.5	15.0
AM 12-44	1.80	229	164	128	107	92.6	81.5	58.6	43.8	33.1	28.8	19.2	16.0
	1.75	235	168	134	112	96.7	85.1	61.2	46.0	34.7	30.2	20.1	16.7
	1.67	270	179	145	122	102	89.2	64.0	48.0	35.5	31.0	20.9	17.0
AM 12-65	1.80	266	205	176	142	124	105	75.5	65.0	48.0	34.6	27.8	23.2
	1.75	290	224	190	148	129	110	79.1	69.0	50.0	43.5	28.9	24.0
	1.67	325	240	205	153	134	114	81.8	72.0	52.0	45.3	30.6	24.8

Actual battery performance data may be +/-5% of figures shown above

Battery Life

Battery Life depends on a number of key factors. These include:

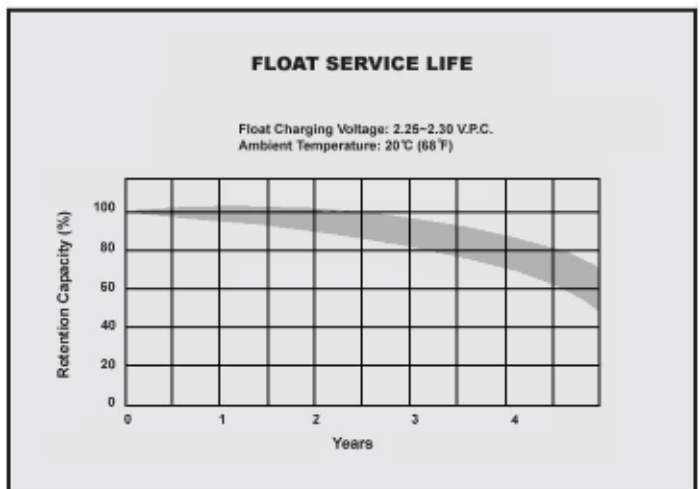
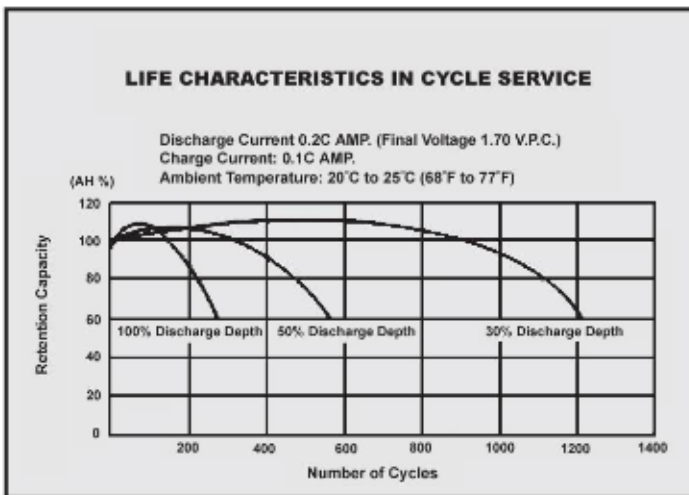
- Operating temperature of the battery;
- Method of charging;
- Actual use of the products i.e. Float or cycle service;
- Correct sizing etc.

Float Service

The float service is effected by the factors listed above and the number / depth of discharge the battery suffers during its life time. Basically the more discharges suffered and the deeper the discharges, the shorter battery life.

Cycle Service

Giving due consideration to the above key factors, the actual life of a battery in cycle service is dependent on the depth of discharge of each cycle. The greater the depth of discharge of each cycle the lesser the number of cycles available from the battery.



Battery Storage

AINO MICRO Batteries have excellent charge retention characteristics, meaning that the self-discharge rate is low, less than 3% per month at 20°C (68°F). The state of discharge of a battery can be determined by the open circuit voltage of the battery to ensure the battery do not over discharge while in storage. To ensure the battery does not over discharge during storage, or when not in use, it is necessary to understand what is meant by fully discharged. Typically a battery is fully discharged when the open circuit voltage reaches 1.92 VPC. The higher the discharge current the quicker the battery reaches a fully discharge state, and the lower current the longer it takes. When the battery has been discharged the battery must be recharged immediately to 100% capacity.

Final Acceptable Discharge

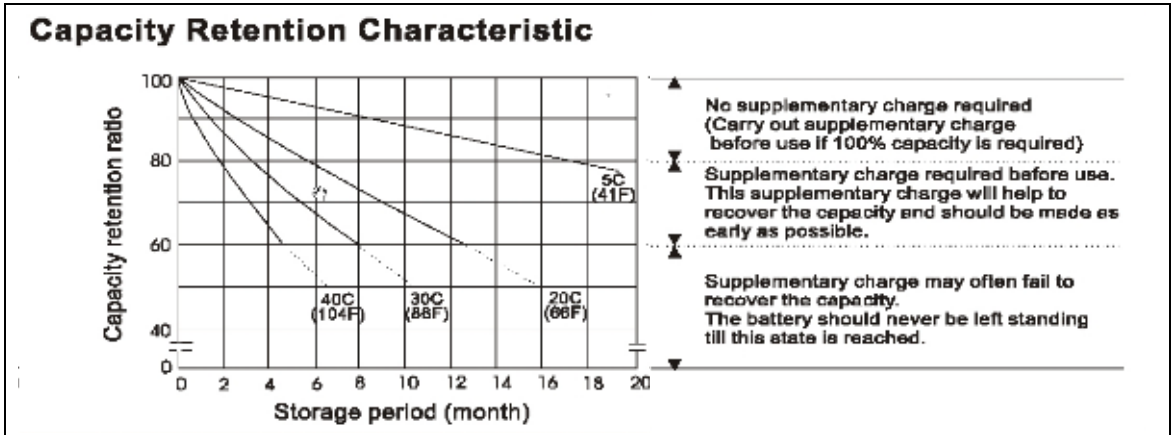
Discharge Current	Final Discharge Voltage Per Cell (VPC)
Up to 0.1CA	1.75
0.11 to 0.17 CA	1.70
0.18 to 0.25 CA	1.67
0.26 to 0.6 CA	1.60

In discharging a battery, lead sulphate (sulphation) is formed. If the battery is recharged as soon as discharging is completed then the lead sulphate is converted to active material and acid. However, on self-discharge the lead sulphate that is formed may not become reversible again. That is it cannot be recovered. The lower the voltage that a battery is

allowed to fall to under self-discharge the more likely it is that the sulphate formation will not be able to reversed and the battery will be damaged beyond recovery.

Precautions Against over Self-discharge

- The batteries should be stored in a cool, dry place 25°C (77°F) or below.
- The batteries should not be stored in direct sunlight.
- The batteries should not be subjected to an external heat source.
- An adequate stock control system should be introduced.

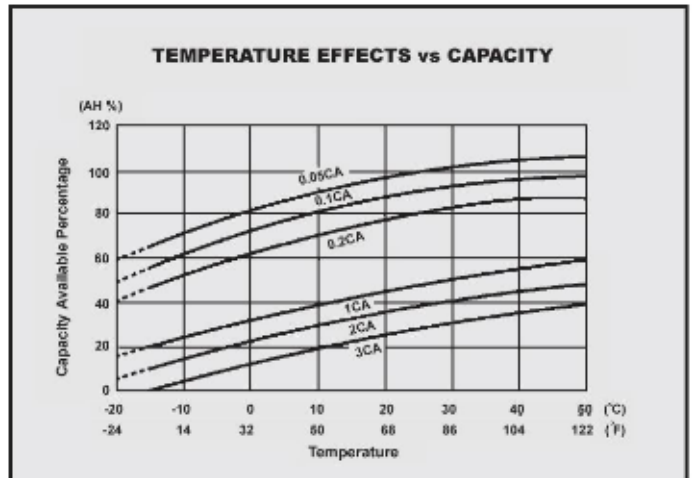
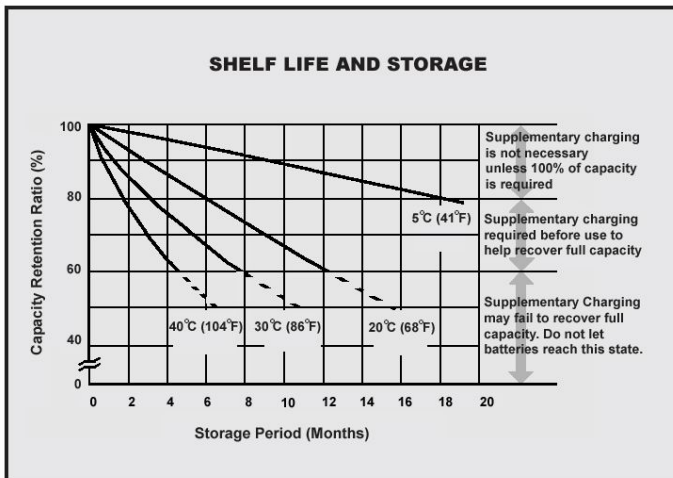


Supplementary Charge

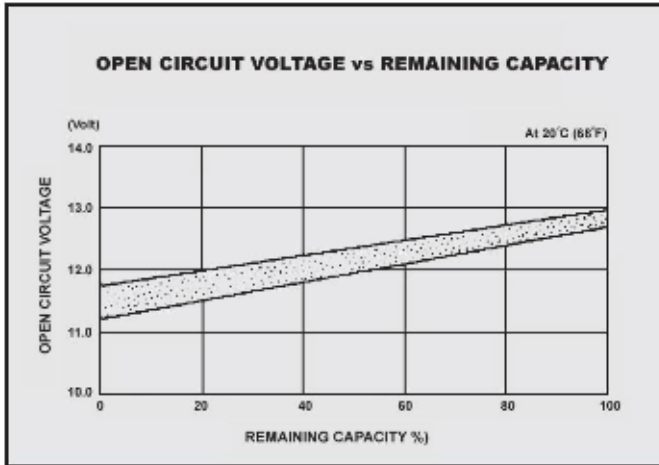
It may be necessary to give the batteries a re-fresh charge during the storage of the batteries, maximum recommended storage times are detailed below, if storage exceeds these times or the open circuit voltage of a battery being stored falls below 12.40 volts per battery (6.2 volts per battery) then it is recommended that the batteries be given a re-fresh charge immediately at 2.25-2.35 VPC for no less than 12 hours.

Storage Temperature

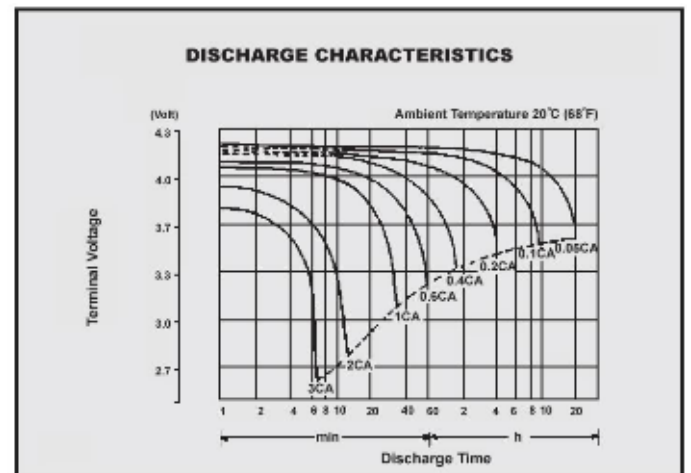
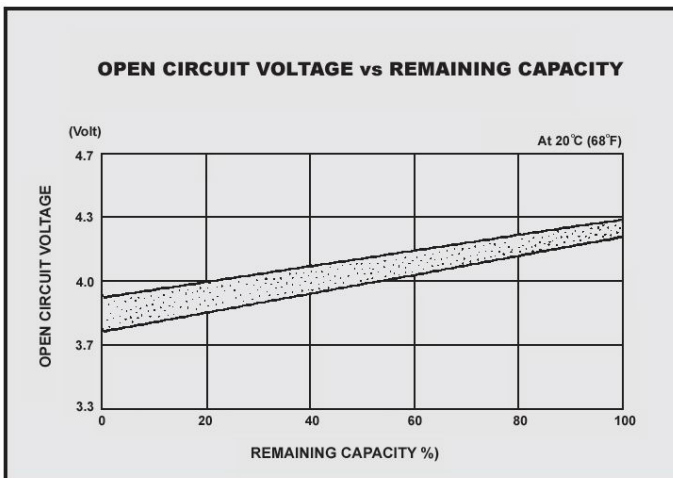
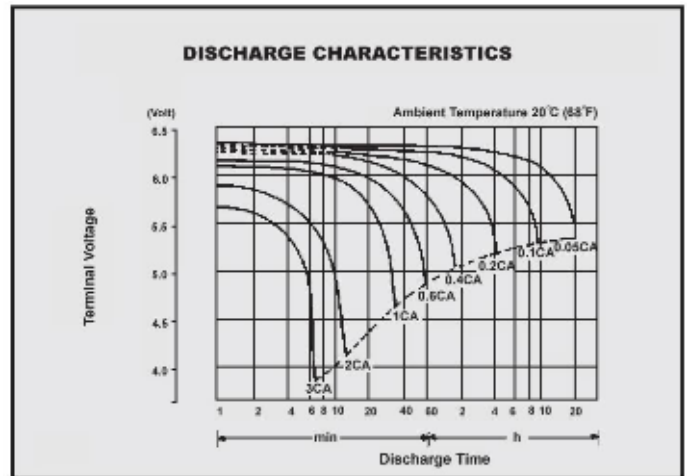
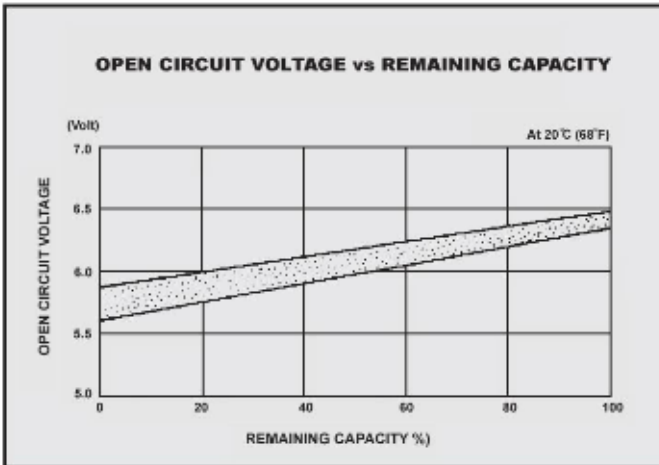
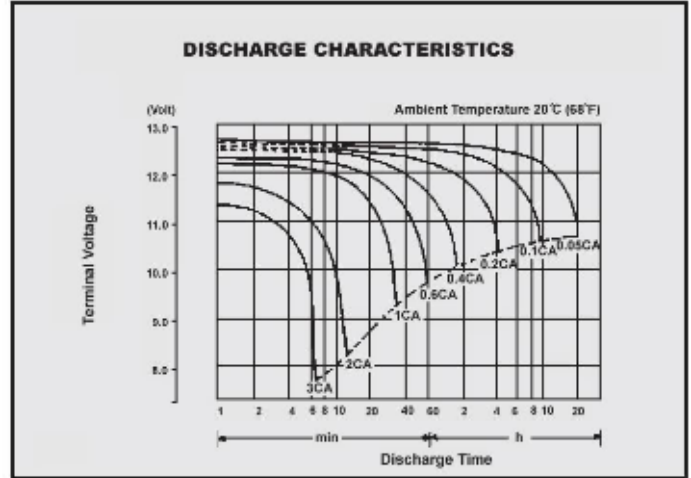
20° C (68° F) or less	Every 9 months
20° C (68° F) – 30° C (86° F)	Every 6 months
30° C (86° F) – 40° C (104° F)	Every 3 months



Open Circuit Voltage vs Remaining Capacity



Discharge Characteristics



POWER-PLUS

Providing reliable power solutions
visit our website for more product information
www.powerplusbatteries.com