

MOBILITY SERIES



Valve Regulated Battery Designed for Mobility & General Purpose Applications.

AGM12-50 VALVE REGULATED LEAD ACID BATTERY FOR MOBILITY APPLICATIONS 12V 50.0 AH @ 20 HR

FEATURES

- Robust plate for extended life.
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Durable polypropylene container and cover.
- Thermally welded case-to-cover bond to eliminate leakage.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Can be used in any orientation. Upright, side, or end mounting recommended.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport – classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Not restricted for water transport—classified as non-hazardous material per IMDG Amendment 27.
- Computer designed lead, low calcium alloy grid for minimal gassing and ease of recycling.

12 Volts – 50 Ampere Hour Capacity @ 20 Hour Rate

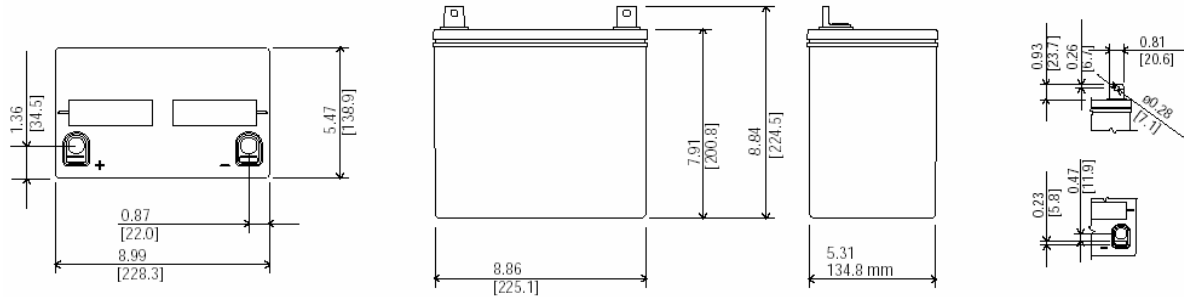
Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)

Discharge in Hours	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
Amp-Hr Capacity	32.0	37.2	40.0	42.0	43.3	44.3	45.1	46.0	46.9	47.8	50.0	50.3	51.7	52.0

C&D Technologies, Inc.
DYNASTY Division
 900 East Keefe Avenue
 Milwaukee, WI 53212
 Phone: 800-396-2789
 Fax: 414-961-6506



AGM12-50



AGM12-50 Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	40 Lbs (18 kg)	Absorbed H ₂ SO ₄ SG = 1.300	600 Amps	2500 Amps @ 0.1 sec.	0.0060 Ohms
Capacity			170 watts per cell at the 15 minute rate to 1.67 volts per cell at 77° F (25° C) 50 Ah @ 20 hr. rate to 1.75 volts per cell @ 77° F (25° C) 44.8 Ah @ 10 hr rate to 1.80 volts per cell @ 20° C (68° F)			
Operating Temperature Range			Discharge: -40° F (-40° C) to +160° F (71° C) Charge: -10° F (-23° C) to +140° F (60° C) (charge ratings with temperature compensation)			
Recommended Operating Temperature Range			+74° F (23° C) to +80° F (27° C)			
Float Charging Voltage			13.5 to 13.8 VDC/unit Average at 77° F (25° C)			
Recommended Maximum Charging Current Limit			C/5 amperes (10.0 amperes @ 100% depth of discharge) @ 20 hour rate			
Equalization and Cycle Service Charging Voltage			14.4 to 14.8 VDC/unit Average at 77° F (25° C)			
Maximum AC Ripple (Charger)			0.5 RMS or 1.5% P-P of float charge voltage recommended for best results Maximum AC ripple voltage allowed = (4% P-P) Maximum AC ripple current allowed = 2.5 amperes rms (C/20)			
Self Discharge			Dynasty AGM batteries may be stored for up to 6 months at 77° F (25° C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.			
Accessories			Inter unit connectors			
Terminal Type			"L" terminal with 0.28" clearance hole to accept 0.25 (6mm) bolt			
Terminal Hardware Initial Torque			40 in.-lbs. (4.5 n-m)			
Terminal Hardware Annual Retorque			32 in.-lbs. (3.48 n-m)			

Constant Power Discharge Ratings - Watts Per Cell @ 77° F (25° C)

Operating Time to End Point Voltage (in minutes)

End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	250	190	155	130	100	82.5	76.7	70.8	62	45.3
1.70	272	204	165	136	105	86.6	80	74.4	65	46.7
1.67	280	210	170	140	107	88.1	81.7	75.2	65.5	47.3
1.65	284	213	173	142	108	88.5	82.1	75.8	66	47.7
1.60	290	215	174	143	109	88.9	82.6	76.2	66.5	48.1

Constant Current Discharge Ratings - Amperes @ 77° F (25° C)

Operating Time to End Point Voltage (in hours)

End Point Volts/Cell	0.083	0.25	0.5	0.75	1	2	3	5	8	10	12	20	24	72	100
1.90	73	53.6	38	31.7	25.2	16	11.8	7.8	5.15	4.25	3.58	2.17	1.83	0.63	0.46
1.85	107	69.2	45.6	37.3	29	17.5	12.7	8.26	5.45	4.43	3.75	2.33	1.96	0.68	0.5
1.80	120	75.6	49.2	39.8	30.4	18.2	13	8.48	5.6	4.57	3.88	2.45	2.06	0.71	0.51
1.75	134	81.6	52.6	42.3	32	18.6	13.3	8.66	5.75	4.69	3.98	2.5	2.1	0.72	0.52