SEALED LEAD-ACID BATTERIES









AGM & GEL



Battery Professionals

Universal Power Group, Inc. (AMEX: UPG) is one of the leading global suppliers and distributors of sealed lead-acid (SLA) batteries. We stock one of the largest inventories of SLA batteries in the nation and have the ability to deliver within 24 to 48 hours.

The size range of our SLA batteries will meet all of your power requirements, whether long service life, extended cycle life, and/or high rate of discharge. From specialized requirements to private label needs and fulfillment/distribution solutions, we have the proven expertise.

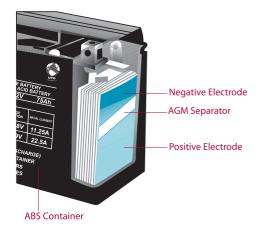
We are ISO 9001: 2000 certified and adhere to strict quality processes and standards. We are committed to continued innovation and excellence.

Features & Benefits

Our UNIVERSAL line of AGM and Gel batteries are defines as Non Hazardous & Non-Spillable by DOT (Department of Transportation), IATA (International Airline Transport Association), and ICAO (International Civil Aviation Association).

Our SLA batteries offer:

- Heavy duty, sealed and maintenance-free use.
- Outstanding performance, withstanding high current output and deep cycling.
- © Excellent resistance to vibration, shock, chemicals and heat.
- Higher cranking amps.
- Lower self-discharge.
- Exceptional leak resistance even in upside-down position.
- Full and reliable power in a compact case.
- ODot 60 classified for easy transportation.
- UL recognized components.



AGM & GEL Battery Design

AGM & GEL SLA batteries are designed to be stored and operated discharged or charged, in any position. Both battery types are of the same battery chemistry (lead dioxide, lead sponge and sulfuric acid electrolyte) but the electrolyte is stabilized differently.



AGM

The electrolyte is suspended in fiberglass mat separators which act as absorbent sponges.



GEL

The electrolyte is suspended in a silicia-based gel which produces a thick pasty material.

AGM Batteries

UPG No.	Model No.	Terminal	Nom	Capacity				sions			Weight
0. 0			Volt	20 hr. rate	Lenç in.	gth mm	Wid in.	lth mm	Hei	ght mm	1bs. +/-5%
40559	UB445	F2	4	4.50	1.86	47	2.06	52	3.82	97	1.10
40561	UB610	F1	6	1.00	2.01	51	1.65	42	2.20	56	0.53
D5731	UB613	F1	6	1.30	3.82	97	0.96	24	2.22	56	0.64
D5695	UB632	F1	6	3.20	2.57	65	1.28	33	4.00	102	1.06
D5732	UB634	F1	6	3.40	5.25	133	1.32	33	2.57	65	1.10
D5733	UB635	F1	6	4.50	2.76	70	1.85	47	4.17	106	1.83
40565	UB645WL	WL	6	4.50	2.75	69	1.86	47	3.94	100	2.02
D5697	UB650S Lantern	SP	6	5.00	2.63	67	2.63	67	4.50	114	2.02
D5897	UB650F Lantern	F1	6	5.00	2.63	67	2.63	67	4.00	102	2.02
D5734	UB670	F1	6	7.00	5.94	150	1.34	34	3.94	100	2.43
D5735	UB685	F1	6	8.50	3.82	97	2.19	56	4.60	117	3.10
D5736/D5778	UB6120	F1/F2	6	12.00	5.94	151	1.94	49	3.82	97	4.06
40575	UB6130 TOY	Plain, H or S	6	13.00	4.25	108	2.82	72	5.44	138	5.04
D5737	UB6120 TOY	Type A Plug	6	12.00	4.25	108	2.78	71	5.47	139	4.19
45966	UB-GC2 (Golf Cart)	L	6	200.00	10.25	260	7.06	179	10.19	259	64.00
45789	UB1208	wL	12	0.80	3.78	96	0.98	25	2.44	62	0.75
D5738	UB1213	F1	12	1.30	3.82	97	1.69	43	2.28	58	1.21
D2790	UB1220-T	ST	12	2.00	5.91	150	0.79	20	3.50	89	1.54
D5739	UB1222	F1	12	2.20	7.00	178	1.38	35	2.50	63	2.20
40580	UB1223A	PC	12	2.30	7.17	182	0.93	24	2.40	61	1.46
D5700	UB1229T	F1	12	2.90	3.06	78	2.19	56	4.00	102	2.12
D5740	UB1234	F1	12	3.40	5.25	133	2.19	67	2.44	62	3.20
D5741/D5777	UB1250	F1/F2	12	5.00	3.54	90	2.76	70	4.21	107	3.09
D5743/D5779	UB1280	F1/F2	12	8.00	5.94	151	2.76	65	3.94	100	4.96
40700/40708	UB1290/UB1290F2	F1/F2	12	9.00	5.94	151	2.56	65	3.94	100	5.10
D5719	UB1290/UB1290F2	F1	12		5.94	151	2.56	65	4.61	117	7.28
D5719 D5744/D5775	UB12120	F1/F2	12	10.00 12.00	5.94	151	3.88	99	4.00	102	8.38
			_								
D5745	UB12180	B1 F2	12 12	18.00	7.13	181	3.01	76	6.57	167	11.90
40648	UB12180			18.00	7.13	181	3.01	76	6.57	167	11.90
40696	UB12220	B1	12	22.00	7.13	181	3.01	76	6.57	167	13.01
D5747	UB12260	B1	12	26.00	6.50	165	6.86	174	4.94	125	18.08
40596	UB122260T	B1	12	26.00	6.50	165	4.94	125	6.86	174	21.00
D5722	UB12350 (Group U1)	L	12	35.00	7.68	195	5.16	131	7.13	181	23.15
45976	UB 12350 (Group U1)	B2	12	35.00	7.68	195	5.16	131	6.14	156	23.15
45977	UB12550	L_	12	50.00	7.72	196	6.50	165	7.17	182	31.97
45825	UB12550 (Group 22NF)	Z	12	55.00	9.02	229	5.43	138	9.13	232	38.58
40740	UB 12550 (+ ON LEFT)	Z	12	55.00	9.02	229	5.43	138	9.13	232	38.58
45980	UB12550 (Group 22NF)	B2	12	55.00	9.02	229	5.43	138	8.27	210	38.58
45821	UB12750 (Group 24)	Z	12	75.00	10.24	260	6.61	168	9.13	232	50.71
45822	UB12750 (Group 24)	B2	12	75.00	10.24	260	6.61	168	8.27	210	50.71
45826	UB12900 (Group 27)	Z	12	90.00	12.05	306	6.61	168	9.13	232	59.52
45823	UB12900 (Group 27)	B2	12	90.00	12.05	306	6.61	168	8.27	210	59.52
45978	UB121000 (Group 27)	Z	12	100.00	12.05	306	6.61	168	9.13	232	60.80
45824/D5751	UB121100 (Group 30H)	Flag/L-Blade	12	110.00	12.91	328	6.77	172	9.29	236	67.24
45981	UB121100 (Group 30H)	B2	12	110.00	12.91	328	6.77	172	8.58	218	67.24
40994	UB121350	B2	12	135.00	13.39	340	6.81	173	11.22	285	87.08
45965	UB-4D AGM	L-Blade	12	200.00	20.75	527	8.11	206	9.65	245	123.46
45964	UB-8D AGM	L-Blade	12	250.00	20.47	520	10.55	268	6.65	169	160.94

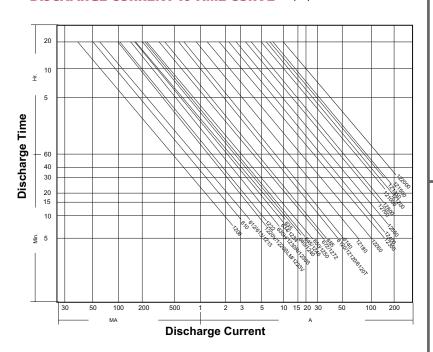
Flame Retardant AGM Batteries

UPG No.	Model No.	Terminal	Nom	Capacity				nsions			Weight
			Volt	20 hr. rate	Lenç in.	gth mm	Wid in.	ith mm	Hei	ght mm	1bs. +/-5%
45565	UB1250FR	F2	12	5.00	3.54	90	2.76	70	4.21	107	3.09
45566	UB1270FR	F2	12	8.00	5.94	151	2.56	64	3.94	100	4.96
45567	UB12120FR	F2	12	12.00	5.94	151	3.88	98	4.00	102	8.38
45568	UB12180FR	B1	12	18.00	7.13	181	3.01	76	6.57	167	11.90
40995	UB12260FR	B1	12	26.00	6.54	166	6.89	175	4.92	125	18.08
D5800	UB12350FR	L	12	35.00	7.68	195	5.16	131	7.13	181	23.15
D5881	UB12550FR	Z	12	55.00	9.02	229	5.43	138	9.13	232	38.58
D5882	UB12750FR	Z	12	75.00	10.24	260	6.61	168	9.13	232	50.71
D5883	UB12900FR	Z	12	90.00	12.05	306	6.61	168	9.13	232	59.52
D5884	UB121100FR	Z	12	110.00	12.91	328	6.77	172	9.29	236	67.24

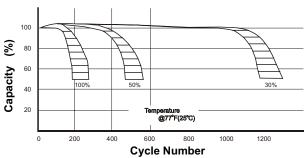
GEL Batteries

UPG No.	Model No.	Terminal	Nom Volt	Capacity 20 hr. rate	. Leng		Dimer Wid	lth	Heig		Weight
40703	UB-GC2 (Golf Cart) Gel	L	6	200.00	in. 10.25	260	in. 7.06	mm 179	in. 10.19	mm 259	64.00
D5870	U1 Gel	ī	12	32.00	7.69	195	5.19	132	7.00	178	23.10
D5871	UB-2NF GEL	Z	12	60.00	9.02	229	5.38	137	9.13	232	38.58
D5872	UB-24 GEL	Z	12	75.00	10.25	260	6.63	168	9.25	235	50.10
D5873	UB-27 GEL	Z	12	90.00	12.05	306	6.61	168	9.13	232	59.52
D5874	UB-30H GEL	FLAG	12	100.00	12.91	328	6.77	172	9.29	236	67.24
40701	UB-4D GEL	L-BLADE	12	180.00	20.87	530	8.11	206	9.61	244	132.28
40702	UB-8D GEL	L-BLADE	12	250.00	20.47	520	10.55	268	9.65	245	171.96

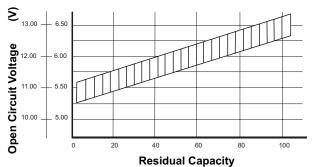
DISCHARGE CURRENT vs TIME CURVE 25°C(77°F)



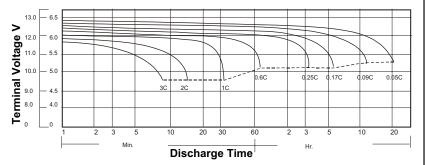
CYCLE LIFE vs DEPTH OF DISCHARGE



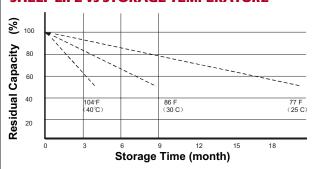
OPEN CIRCUIT VOLTAGE vs RESIDUAL CAPACITY



DISCHARGE CHARACTERISTICS



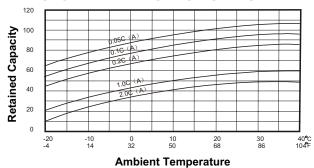
SHELF-LIFE vs STORAGE TEMPERATURE



DISCHARGE CURRENT VS FINAL DISCHARGE VOLTAGE

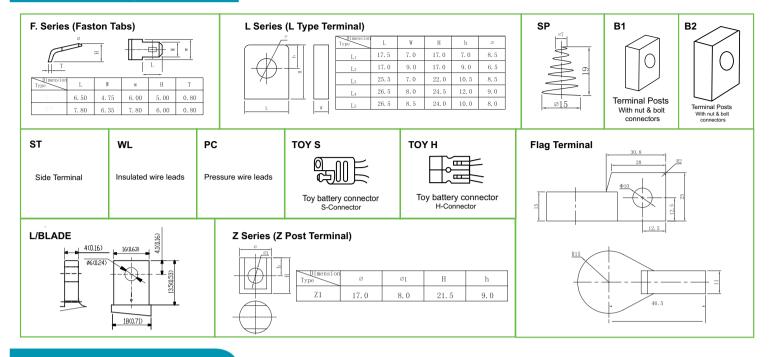
Discharge Current (A)	Final Discharge Voltage (V/cell)
0.01C>C _A	1.90
0.2>C _A ≥0.01C	1.75
0.5>C _A ≥0.02C	1.70
2.0>C _A ≥0.05C	1.60
C _A ≥2.0C	1.30

EFFECT OF TEMPERATURE ON CAPACITY





Terminal Configurations



Battery Care

To properly charge your deep cycle gel/AGM battery:

- Active users: Charge daily.
- Occasional users: Charge your battery before any outing and always after active use.
- Only use with a specified charger. Never use an automotive or wet type charger on a gel/AGM battery.
- Never run your battery completely flat. Excess discharge of the battery can lower its performance level and shorten battery life.
- Top charge your battery frequently.

Battery Storage

- Batteries should always be stored fully charged in a cool and dry place to maintain maximum service life.
- 🛾 Depending on storage temperature, batteries hold their charge for up to 18 months until recharge is necessary. Above 30°C, recharge at 9 months. Above 40°C, recharge at 3 months. Do not store about 40°C.
- If a battery is stored for a year or longer without being charged, its service like may be shortened.
- When left in idle for more than 2 weeks, charge the batteries then disconnect them from the apparatus.
- Never store batteries in a sealed environment or incorporate into a sealed structure/enclosure without adequate ventilation.

Usage Precautions 🕕



SLA batteries if used under recommended conditions generate no sulfuric acid gasses. However, because they contain lead and sulfuric acid, which are both toxic, proper care and handling is important in order to avoid accidental fires, damage to property, bodily injuries or even death.

- Improper charging and poor maintenance may cause battery to emit hydrogen gas. Therefore, do not use battery near a spark, fuse, and/or equipment that emits sparks.
- Never mix the SLA batteries together with other types of batteries, such as dry cells and nickel-cadmium batteries
- Keep the battery terminals from contact with wire, metal tools, such as screw drivers, spanners, torque wrenches unless they are properly insulated. Do not have on any watches, personal jewelry, hair pins or any other metallic objects when servicing the batteries.
- Short circuiting the terminals of the battery can cause burn injuries. damage to the storage battery, or trigger explosions.
- Do not direct solder to terminal. This may lead to electrolyte leakage.

- Ouse of SLA batteries in the upside down position is not recommended.
- Do not use organic solvent, cleaning agents, paint/thinner, petroleum products to clean battery surface. These products can lead to battery container/cover cracking.
- SLA batteries may not be compatible with certain equipment. Any uncertainty about the specifications of the battery should be brought to our attention.
- Observe circuit polarities. Do not make or break live circuits.
- As appropriate, use an insulating blanket to cover exposed portions of the battery system when performing extended maintenance that could result in personal or equipment contact with the energized conductors.



Primary Power Applications

- Consumer Electronics
- Electric Vehicles
- Engine Starters
- Golf Cart
- Hunting
- Lawn & Garden Tools
- Marine
- Medical Mobility
- Medical Equipment

- Motorcycle
- Photography
- Powersports
- Portable Tools
- Solar
- Toys & Hobby
- Trucking
- Other Portable Equipment

Standby Power Applications

- Access Control Devices
- Automotive and Cable Electronics
- Electronic Equipment Requiring Memory Protection
- Emergency Lighting
- Security
- Telecommunications Equipment
- UPS Systems

Speciali ed Applications

If your needs are specialized, we are able to custom manufacture batteries and chargers to meet your particular specifications. Tell us what you need and let us handle the rest.

Environmental Care



Improper disposal of batteries can lead to contamination of soil and ground water. At UPG, we work with authorized recyclers to pick up your spent"/used batteries and we ensure that these batteries are properly disposed of by EPA licensed smelters.

Customer Care

Customer satisfaction is very important to us. Our Sales, Customer Service and Support Specialists are available to assist you with all of your rechargeable power needs. However large or small.

Other UPG Product Solutions

Adventure Power® & Adventure Power® Marine AGM Batteries











These AGM batteries are designed for powersports applications and specially built to absorb high impact and extreme vibrations. Adventure Power® batteries are ideal for motorcycles, ATVs, personal watercraft and snowmobiles. Ask a Battery Sales Professional for more details.

Chargers & Maintainers







Our line of automatic chargers and maintainers are available to match your cycling, float or standby power needs. If your charging requirements are unique, our engineers can help you develop specialized chargers. Let us help you stay powered and protect your battery life.

Headquarters

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Starter-Up Automotive & Marine Jumpstarters





Our Starter-Up line of jumpstarters offer durable and compact engine starting and 12V DC solutions for auotmotive, marine and recreational vehicles.

