

Alliance AGM Batteries

Alliance AGM Batteries are specifically designed for commercial service applications such as starting, dual purpose and deep-cycle.



GENERAL PRODUCT INFORMATION

Today's heavy-duty trucks depend on batteries to provide power for electronics, tailgates, extra lights, heating and cooling systems, and many other power drains as well as start the engine. Starting batteries aren't designed to withstand the continuous discharge that new auxiliary equipment demands, often when the engine is not running.

Alliance premium starting and cycling service batteries can accommodate multiple auxiliary loads without shortening the battery's performance and life. Its advanced AGM designed is not only built for power, but is vibration-resistant, spill proof and leak proof, maintenance-free, and delivers faster recharging and longer cycle life.

FEATURES & BENEFITS

- **Lower internal resistance** provides quick starting and saves considerable wear on your vehicle's alternator and entire recharging system.
- **High reserve capacity** means more power for electronic loads especially when key-off power is crucial.
- **AGM tight-packed construction** resists vibration damage for better performance and longer life.
- **Hard-impacting polypropylene case** and cover resists external damage for extended use.
- **Tough, stainless steel terminals** prevent corrosion for more power and better performance.
- **Spill proof and leak proof design** protects your hard-used, expensive equipment.

PART NUMBERS AND SPECIFICATIONS

Part Number	Performance Level			Volts	Approx. Wt. LBS Wet	Dimensions Inches/(MM)		
	Cranking Amps @ 32°F	Cold Cranking Amps @ 0°F	Reserve Capacity Mins. @ 80°F			L	W	H
EPM/AE8A31	1000	800	200	12	68.5	13 (330)	6 3/4 (171)	9 3/8 (238)
EPM/AE9A31	1060	925	190	12	65	13 (330)	6 3/4 (171)	9 1/2 (241)

PART NUMBER APPLICATIONS AND CROSS REFERENCE

Part Number	Description	Application	Production	Exide	Interstate
EPM/AE8A31	AGM Dual Purpose/Deep Cycling Battery	HVAC, APU, Reefer Units, Extra Auxiliary Loads	A06-30097-011	RF-31D	—
EPM/AE9A31	AGM Starting/Dual Purpose Battery	Day Cab, Sleeper, P7D, Vocational	A06-30097-010	XRF-31D	SC31DS

BATTERY SAFETY TIPS

- Be careful! Batteries produce explosive gases.
- Always wear safety glasses when working on or near batteries.
- Keep sparks, flames and cigarettes away from batteries at all times.
- Never lean over a battery when jump starting or performing other maintenance.
- Follow the proper instructions found on your booster cable set or in the vehicle owner's manual.

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty with coverage available in the US and Canada. Alliance Group 31 batteries have an 18-month warranty without proration.

ADDITIONAL INFORMATION

To learn more about Alliance parts, please visit www.alliancebrandparts.com.



Did you know lead-acid batteries are virtually 100% recyclable?

They have a higher recycling rate than other waste products such as aluminum, paper, glass and plastic. Be sure to return your scrap lead-acid battery to a retailer. In most states it is illegal to discard a battery in the trash.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.daimler-trucksnorthamerica.com.

WHEN YOU NEED MORE INFORMATION . . .

The catalogs listed below are available from your local dealer.

Catalog Number	Description
DTNA/PSM-M-517	AGM Battery One Page Sell Sheet
DTNA/PSM-M-318	Alliance Battery Part Number Cross Reference Sheet

WHEN REPLACING BATTERIES, CONSIDER THESE ADDITIONAL ITEMS

- Battery cables
- Battery boxes
- Starters
- Alternators
- Battery chargers
- Battery testers

Alliance Starting and Dual Purpose Batteries



Alliance Group 31 Batteries are specifically designed for commercial service applications such as starting, dual purpose and deep-cycle.

GENERAL PRODUCT INFORMATION

- The battery's most important function is to provide power to crank and start the engine. Due to each engine's unique starting characteristics, it is impossible to use a simple rule to estimate the required battery capacity; **therefore, you must rely on the BCI Replacement Data Book, or owner's manual, to choose the correct CCA rating.** The two ratings are Cold Cranking Amps (CCA) and Cranking Amps (CA).
- Never select a quality grade level lower than the O.E. CCA rating. Older vehicles, extra accessories and severe climatic conditions (extreme hot or cold) call for a more powerful battery. In these cases, always select a level above the O.E. requirement. Battery performance is measured at two different temperatures 0° F. (CCAs) and 32° F. (CAs). **When comparing ratings, always compare CCAs to CCAs and CAs to CAs – never mix the two!**
- **Always select a battery by CAs or CCAs – never by months of warranty!** You can never have too many CCAs, but too few will shorten battery life because the underrated battery must work much harder.
- Today's trucks demand much more power to operate all the on-board auxiliary equipment. Typical starting batteries are designed to deliver quick bursts of electricity for engine starting, but operating this new auxiliary equipment calls for long, slow power draws over a period of hours – or even days – often when the engine is off. Starting batteries can't handle these increased power requirements, and they may wear out in short order.
- **Alliance batteries provide all the cold cranking power needed for starting in any climate, plus abundant deep cycle power for typical auxiliary demands.**

PART NUMBER CROSS REFERENCE

DUAL PURPOSE BATTERY PART NUMBERS

Alliance	Production	Delco	Champion	Exide	Interstate	Powervolt
EPM/AEDP31CS	A06-30097-006	1150	CHS1150	—	31-ECL	—
EPM/AEDP31PCS	—	1151	CHP1150	—	31P-ECL	—
EPM/AE7T31	A06-30097-008	—	—	—	—	—
EPM/AE7T31P	A06-30098-001	—	—	—	—	—

STARTING BATTERY PART NUMBERS

Alliance	Production	Delco	Champion	Exide	Interstate	Powervolt
EPM/AE931MF	A06-30097-001	1200	CHS1200	COM-31D	31-VHD	V31S-5*
EPM/AE931PMF	—	1201	CHP1200	COM-31E	31P-VHD	V31P-5*
EPM/AE1031MF	A06-30097-000	1110	CHS1110	HC31-D	31-LHD	VMF31S-5*
EPM/AE1031PMF	A06-30098-000	1111	CHP1110	HP31-E	31P-LHD	VMF31P-5*
EPM/AE1131MF	A06-30097-003	—	CHS900	HP-31D	31-MHD	VMF31S-7*
EPM/AE1131PMF	—	—	CHP900	HP-31E	31P-MHD	VMF31P-7*
EPM/AE1131XMF	A06-30097-002	31-900CT	—	XHP-31D	31XHD	V31S-7G*
EPM/AE1131XPMF	A06-31612-000	31-901CT	—	XHP-31E	—	V31P-7G*
EPM/AE1231PMF	A06-30097-004	—	—	—	—	—
EPM/AE1231MF	A06-30097-005	—	—	—	—	—

* Made in Mexico

TOP SELLERS

GROUP 31 BATTERIES

Part Number	Description	Part Number	Description
EPM/AE1031MF	760CCA, 170RC, Stud Type	EPM/AE1131MF	925CCA, 170RC, Stud Type
EPM/AE7T31	730CCA, 190RC, Stud Type	EPM/AE1231MF	1125CCA, 195RC, Stud Type
EPM/AE1131XMF	1000CCA, 185RC, Stud Type	EPM/AE1031PMF	760CCA, 170RC, Post Type
EPM/AEDP31CS	700CCA, 180RC, Stud Type	EPM/AE1131XPMF	1000CCA, 185RC, Post Type
EPM/AE931MF	650CCA, 145RC, Stud Type		

ADDITIONAL INFORMATION

To learn more about Alliance parts, please visit www.alliancebrandparts.com.

FEATURES & BENEFITS

- **Calcium/Calcium Maintenance-Free Design** – Significantly reduces maintenance costs and shortened life due to over/under watering.
- **Specially designed leak resistant cover with a tilt angle of 45 degrees** – Keeps battery compartments clean and dry even at severe tilt angles.
- **Covered Screw-in Vents** – Maintenance-free but not maintenance impossible if battery is overcharged.
- **Full Frame Compu-cast Grids** – No sharp X metal grid wires to cause short circuits.
- **Heavy-duty Plates with High Density Oxide** – To withstand “high cycling” type service such as P&D business class and step vans.
- **Special Glass Glued Envelope Separators** – Glued fiberglass strands act like “rebars” in concrete, locking the active material onto the plate for longer life.
- **Anchor Locked Elements** – The elements are locked into place at the bottom, to resist the damaging effects of pounding vibration typical of commercial service.
- **Quality Control** – All Alliance batteries must pass more than 250 quality control checks during manufacture, ensuring superior performance and long life. And Alliance Batteries are made in the U.S.A., your assurance of quality.

QUICK REFERENCE CHART

BATTERY TYPE BY APPLICATION

SleeperCab	Minimum of four (4) DUAL PURPOSE BATTERIES with a low voltage disconnect or battery management system.
Day Cab Line Haul	STARTING BATTERY with the number of batteries determined by the CCA capacity.
Day Cab Delivery	DUAL PURPOSE BATTERIES with the number of batteries per truck determined by the engine CCA requirement.
P&D	DUAL PURPOSE BATTERIES with the number of batteries per truck determined by the engine CCA requirement.
Reefer Unit	DUAL PURPOSE BATTERY

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty with coverage available in the US and Canada. Alliance Group 31 batteries have an 18-month warranty without proration.



Did you know lead-acid batteries are virtually 100% recyclable? They have a higher recycling rate than other waste products such as aluminum, paper, glass and plastic. Be sure to return your scrap lead-acid battery to a retailer. In most states it is illegal to discard a battery in the trash.

PERFORMANCE ADVANTAGES

In every significant test, the performance differences between Calcium Maintenance-Free vs Hybrid and Low Antimony batteries are dramatic. In addition, they offer all of these important advantages:

- Premium Envelope Separators
- Computer-Controlled Grids
- Humidity-Cured Plates
- Over 250 Quality Control Checks
- Highest CCA Ratings
- Demineralized Electrolyte
- Computer-Controlled Plates
- Radial “Power-Path” Grids
- Temperature-Controlled Formation

Notes:

1. “Calcium Maintenance-Free” is pure calcium, with no antimony content in the grids or plates.
2. “Hybrid” is a battery with one calcium and one low antimony plate.
3. “Low Antimony” is a battery with 2 1/2% antimony content.

BATTERY SAFETY TIPS

- Be careful! Batteries produce explosive gases.
- Always wear safety glasses when working on or near batteries.
- Keep sparks, flames and cigarettes away from batteries at all times.
- Never lean over a battery when jump starting or performing other maintenance.
- Follow the proper instructions found on your booster cable set or in the vehicle owner’s manual.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.daimler-trucksnorthamerica.com.

WHEN YOU NEED MORE INFORMATION . . .

The catalogs listed below are available from your local dealer.

Catalog Number	Description
DTNA/PSM-F-478	Alliance Battery Application Data Guide
DTNA/PSM-M-318	Alliance Battery Part Number Cross Reference Sheet

WHEN REPLACING BATTERIES, CONSIDER THESE ADDITIONAL ITEMS

- Battery cables
- Battery boxes
- Starters
- Alternators
- Battery chargers
- Battery testers

Alliance Electrical Assemblies

Freightliner LLC Customer Support proudly introduces electrical assemblies to the Alliance product line. These coiled and straight ABS, heavy duty and economy electrical assemblies are designed to fully support your semi-trailer and dolly braking needs.



GENERAL PRODUCT INFORMATION

The two most important differentiating points for Alliance electrical assemblies are the internal conductors being stripped and tinned for better conductivity and the superior memory retention that the EVA (ethyl vinyl acetate) jacket provides after reversing the coil. This process keeps the electrical assembly from sagging into the drivetrain.

FEATURES & BENEFITS

All Alliance electrical assemblies have the internal wires stripped and tinned making for a better crimped connection. The full contact between pin and conductor increases current carrying capacity. Crimping the insulated jacket as well as the wire helps seal the conductor from harmful moisture. Alliance crimped pin type inserts allow for a strong positive termination with no machine screws to vibrate loose.

TOP SELLERS

ABP Part Number	Description
ABP/N54A-SFA125CE-N	Cable Assembly - ABS, Coiled, 12 Ft, 4/12, 2/10 and 1/8 gauge, Nylon Plugs
ABP/N54A-SFA155CE	Cable Assembly - ABS, Coiled, 15 Ft, 4/12, 2/10 and 1/8 gauge, Metal Plugs
ABP/N54A-SFA155CE-N	Cable Assembly - ABS, Coiled, 15 Ft, 4/12, 2/10 and 1/8 gauge, Nylon Plugs
ABP/N54A-SFA12SE	Cable Assembly - ABS, Straight, 12 Ft, 4/12, 2/10 and 1/8 gauge, Metal Plugs
ABP/N54A-SFA15SE	Cable Assembly - ABS, Straight, 15 Ft, 4/12, 2/10 and 1/8 gauge, Metal Plugs
ABP/N54A-SF155CE	Cable Assembly - Heavy Duty, Coiled 15 Ft, 6/12 and 1/10 gauge, Metal Plugs
ABP/N54A-SF155CE-N	Cable Assembly - Heavy Duty, Coiled, 15 Ft, 6/12 and 1/10 gauge, Nylon Plugs
ABP/N54A-SF15SE	Cable Assembly - Heavy Duty, Straight, 15 Ft, 6/12 and 1/10 gauge, Metal Plugs
ABP/N54A-SF0125CE	Cable Assembly - Economy, Coiled, 12 Ft, 6/14 and 1/12 gauge, Metal Plugs
ABP/N54A-SF0155CE	Cable Assembly - Economy, Coiled, 15 Ft, 6/14 and 1/12 gauge, Metal Plugs
ABP/N54A-SF0155CE-N	Cable Assembly - Economy, Coiled, 15 Ft, 6/14 and 1/12 gauge, Nylon Plugs
ABP/N54A-SF6WS	Socket - 6 Pin, Metallic
ABP/N54A-SF6WP	Plug - 6 Pin, with Cable Guard, Metallic
ABP/N54A-SF7WSSAE	Socket - 7 Pin, Solid Pin, 2 Hole Mount, Metallic
ABP/N54A-SF7WPSAE	Plug - 7 Pin, with Cable Guard, Metallic
ABP/N54A-SF155CE-72	Cable Assembly - Heavy Duty, Coiled, 15 Ft, 6/12 and 1/10 gauge, 72" Lead, Metal Plugs
ABP/N54A-SFA155CE-40	Cable Assembly - ABS, Coiled, 15 Ft, 40" Lead, 4/12, 2/10 and 1/8 gauge, Metal Plugs
ABP/N54A-SFA155CE-40N	Cable Assembly - ABS, Coiled, 15 Ft, 40" Lead, 4/12, 2/10 and 1/8 gauge, Nylon Plugs

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CROSS REFERENCE GUIDE						
Alliance Part Number	Description	Sureflex	Phillips	Tectran	Philatron	Midland
ABS COILED POWERCORDS (1-8/2-10/4-12) CABLE CONSTRUCTION						
ABP/N54A-SFA125CE-N	12' Nylon	SFA125CE-N	30-9320	N/A	2-412-CL	N/A
ABP/N54A-SFA155CE	15' Metal w/Spring	SFA155CE	30-4621	7ATG522MG	N/A	BE27071
ABP/N54A-SFA155CE-N	15' Nylon	SFA155CE-N	30-9620	N/A	2-415-CL	N/A
ABP/N54A-SFA155CE-40	15'-40" Metal w/Spring	SFA155CE-40	30-4921**	7ATG542MG	N/A	BE27072**
ABP/N54A-SFA155CE-40N	15'-40" Nylon	SFA155CE-40N	30-9920**	N/A	2-415-40-CL	N/A
ABS STRAIGHT POWERCORDS (1-8/2-10/4-12) CABLE CONSTRUCTION						
ABP/N54A-SFA12SE	12' Metal w/Spring	SFA12SE	30-2051	7AAB122MG	N/A	BE27457
ABP/N54A-SFA15SE	15' Metal w/Spring	SFA15SE	30-2071	7AAB152MG	N/A	BE27458
HEAVY DUTY COILED POWERCORDS (1-10/6-12) CABLE CONSTRUCTION						
ABP/N54A-SF155CE	15' Metal w/Spring	SF155CE	22-9621	7STS522MG	N/A	BE27031
ABP/N54A-SF155CE-N	15' Nylon	SF155CE-N	N/A	N/A	2-615-CL	BE27046
ABP/N54A-SF155CE-40	15'-40" Metal w/Spring	SF155CE-40	N/A	7STS542MG	N/A	N/A
ABP/N54A-SF155CE-72	15' Metal	SF155CE-72	22-9721	7ETB512MG	2-617-CM2	N/A
HEAVY DUTY STRAIGHT POWERCORDS (1-10/6-12) CABLE CONSTRUCTION						
ABP/N54A-SF15SE	15' Metal w/Spring	SF15SE	22-2071	7SAB152MG	N/A	N/A
ECONOMY COILED POWERCORDS (1-12/6-14) CABLE CONSTRUCTION						
ABP/N54A-SF0125CE	12' Metal w/Spring	SF0125CE	24-4321	7ETB222MG*	N/A	BE27039
ABP/N54A-SF0155CE	15' Metal w/Spring	SF0155CE	24-4621	7ETB522MG*	N/A	BE27019
ABP/N54A-SF0155CE-N	15' Nylon	SF0155CE-N	N/A	N/A	2-815-CL	BE27048
METALLIC PLUGS						
ABP/N54A-SF6WP	6 Pin w/Cable Guard	SF6WP	15-630	670-61SG	2906P	BE23604
ABP/N54A-SF7WPSAE	7 Pin w/Cable Guard	SF7WPSAE	15-730	670-71SG	2907P	BE23784
METALLIC SOCKETS						
ABP/N54A-SF6WS	6 Pin	SF6WS	15-600	670-62	2906S	BE23602
ABP/N54A-SF7WSSAE	7 Pin Solid 2 Hole Mnt	SF7WSSAE	15-721	670-72A	2907S	BE23703

*7/14 Cable **48" Lead

FREQUENTLY ASKED QUESTIONS

What is the expected "road life" for an electrical assembly?

Answer: Without any driver abuse an electrical assembly can last four to five years before needing to be replaced.

What makes your coiled electrical assembly better than your competition's?

Answer: The EVA (Ethyl Vinyl Acetate) cable jacket and the reverse coiling process during manufacturing offers superior memory retention of the electrical assembly therefore causing less sagging into the drivetrain and providing longer "road life."

WARRANTY

Alliance parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

ADDITIONAL INFORMATION

To learn more about Alliance parts, please visit www.alliancebrandparts.com.