

# Freedom Extra AGM Battery

### Description

Delphi's Heavy-Duty Freedom Extra® AGM (absorbent glass mat) Battery incorporates gas recombinant technology to provide superior power and performance for a wide range of commercial vehicles. It is completely heat-sealed and maintenance-free, with a one-way pressure valve and a new rugged, leak-free cover and case that provides superior durability, safety, and performance. In fact, the AGM battery will last up to twice as long as conventional flooded lead-acid batteries.

### Typical Applications

The Freedom Extra AGM Battery is well-suited to applications requiring superior capacity, power, energy, and life.

### Performance Advantages

The battery offers reliable performance over a longer life span. Other benefits include lower life cycle costs, improved safety, and packaging flexibility.



Features	Benefits
<ul style="list-style-type: none"><li>Gas recombinant and absorbent glass mat technology</li></ul>	<ul style="list-style-type: none"><li>Provides up to twice the life of flooded lead-acid batteries</li><li>Maintenance-free operation</li><li>Leak- and spill-free design (no free electrolyte)</li><li>Deep-cycling capability</li><li>Higher underhood operating temperature range (62°C continuous; 85°C excursion)</li></ul>
<ul style="list-style-type: none"><li>One-way pressure valve with flame arrestor</li></ul>	<ul style="list-style-type: none"><li>Controlled safety system</li></ul>
<ul style="list-style-type: none"><li>Lower mass (1 to 4 kg savings), reduced volume (1 to 2 liters)</li></ul>	<ul style="list-style-type: none"><li>Greater packaging flexibility</li></ul>
<ul style="list-style-type: none"><li>Totally sealed "leak-free" case and cover</li></ul>	<ul style="list-style-type: none"><li>Virtually unlimited orientation</li><li>May be shipped via any mode of transportation (e.g., air UPS, Fed Ex, etc.)</li></ul>
<ul style="list-style-type: none"><li>Recyclable</li></ul>	<ul style="list-style-type: none"><li>Environmentally friendly</li></ul>

# Freedom Extra AGM Battery

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- Convenient fold-down handle for easy carrying and installation
  - Molded polarity symbols can never wash off
  - Heat-sealed cover for maintenance-free protection with strength and rigidity
  - Ramp for bottom hold-down configurations
  - Air gaps around plates provide higher underhood operating temperature range
  - Glass mat separators eliminate the possibility of spillage (no free electrolyte)
  - Plates made from high-density paste
  - Spin-sealed, no-leak terminals
  - One-way pressure valve with flame arrestor providing a controlled safety system
  - Increased cell compression provides improved vibration resistance and durability
  - Centered plate strap provides cell connectors that increase performance and reliability
  - Wrought lead-calcium grids are fine-grained, strong, and provide corrosion protection
  - Polypropylene case with reinforced end walls provides maximum strength and element compression

## Service and Support

- Lab testing to specifications
- Verification of design criteria
- Tailored programs
- Systems matching
- Packaging for export
- Service Parts Operations

## Standards—Tested to Meet

- BCI            ■ DIN
- SAE           ■ JIS

## Facilities

- Manufacturing Plant in Tetla, Mexico
- Engineering Center in Indianapolis, Indiana

## AGM Automotive Battery Specifications

BCI Ref	Dimensions, MM			CCA, Amps	RC Minutes
	L	W	H		
Group 78	274	180	185	650	100
Group 34	274	175	203	650	100
Group 34R	274	175	203	650	100
Group 65	304	190	192	800	135
Group 75	244	180	185	550	80
Group 85	244	175	203	550	80
Group 86	244	175	203	550	80

NOTE: Battery weight varies by performance

# DELPHI

[www.delphi.com](http://www.delphi.com)

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